Environment Management and Engineering Division

(Environmental Laboratory)

Agriculture College Campus, Next to DIC office, Shivaji Nagar, Pune. 411 005,

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Quarter October- November- December 2022

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12254/5
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:-	Test Location	Kanki Sand lease Pump house upstream
Balaghat(M.P)	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022
00	SERVIATION	1

OBSERVATION

RESULT

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

-		- 19			i de la compañía de l
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	24.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.342	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.5	≤ 400	APHA - 401
09	Benzene (C6H6)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd,

kordeputch. 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/December/12254

Issue Date:12/122022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12254/7
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Test Location	500 m away from shiv mandir
	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	11.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	15.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	50.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	23.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	3.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.324	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.4	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

> All above results are within National Ambient Air Quality Standards

> BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Checked By kuperlich

(Mrs.Kadambari Deshmukh)

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Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12254/6
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand lease Pump house down stream
	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

OBSERVATION

	°C	% RH	In Min			
29 29	12	40	1440	0.0	5.0 km/	SW

		RESULT				
Sr. No.	Description	Unit	Results	CPCB standard	Test Method	
01	Sulphur Dioxide (SO ₂)	μg/M ³	11.2	≤80	IS 5182(Part 2)	
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.0	≤ 80	IS 5182(Part 6)	
03	Particulate Matter PM10 micron	µg/M ³	56.3	≤ 100	IS 5182 (Part 0)	
04	Particulate Matter PM2.5 micron	μg/M ³	23.8	≤ 60	USEPA 40 CFRCH	
05	Ozone (O3)	μg/M ³	3.6	≤ 100	IS 5182	
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS	
07	Carbon Monoxide (CO)	mg/M ³	0.338	≤ 2.0	IS 5182	
08	Ammonia (NH ₃)	µg/M ³	3.8	≤ 400	the state of the s	
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	<u>≤</u> 5	APHA - 401	
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL		IS 5182	
11	Arsenic (As)	ng/ M ³		≤1	IS 5182	
12	Nickel (Ni)	ng/ M ³	BDL	≤6	APHA - AAS	
		URI IM.	BDL	≤ 20	APHA - AAS	

REMARKS/OBSERVATIONS:

All above results are within National Ambient Alr Quality standards.

> BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd

Kongewich Checked By (Mrs.Kadambari Deshmukh)

Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Reference No.	MITCON/2022- 23/December/12254/8
Date of Monitoring	02/12/2022
Type of Monitoring	Ambient Air
Test Location	Balaghat MC Pump house
Monitoring Done By	MITCON
Date of Analysis	05/12/2022
	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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

	A LEAST AND A LEAS	RESULT			and the second
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	58.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M³	32.8	≤ 60	USEPA 40 CFRCH
05	Ozone (Os)	μg/M ³	4.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.420	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M ³	4.3	≤ 400	APHA - 401
09	Benzene (CeHe)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Nil)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

> All above results are within National Amblent Air Quality standards & ENGINA

> BDL: - Below Detection Limit.

For MITCON Consultancy & Engl s Ltal

Checked By (Mrs.Kadambari Deshmulth)

CONe

Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12253/5
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
WS MOLE LIMITED,	Type of Monitoring	Ambient Air
Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:-	Test Location	Kanki Sand River Bank
Balaghat(M.P)	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	54.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	28.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	3.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.218	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M ³	3.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

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REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services SNOD NOT

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(Mrs.Kadambari Deshmukh)

orized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12253/6
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:- Balaghat(M.P)	Test Location	Kanki Sand 500 m from River Bank
Balaghat(M.P)	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/	SW
				A Sector	1.5	hrs.(Avg)	

		RESULT			
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	10.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	53.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	24.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	2.8	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.224	≤ 2.0	IS 5182
08	Ammonia (NH3)	μg/M ³	3.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Service

Evoquich **Checked By**

(Mrs.Kadambari Deshmukh)

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orized Signatory Dr. Sandeep Jadhav Senior vice president

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Customer complaint register is available in the laboratory Page 6 of 9

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Reference No.	MITCON/2022- 23/December/12253/7
Date of Monitoring	02/12/2022
Type of Monitoring	Ambient Air
Test Location	Garra Village
23/December/122 Date of Monitoring 02/12/2022 Type of Monitoring Ambient Air	MITCON
Date of Analysis	05/12/2022
	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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	57.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	25.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	3.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.366	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.4	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

All above results are within National Ambient Air Quality standards.
 BDL: - Below Detection Limit.
 For MITCON Consultancy & Engineering Services Line.

For MITCON Consultancy & Engineering Services L

Checked By LODQUUCL (Mrs.Kadambari Deshmukh)

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Authonized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12253/8
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:- Balaghat(M.P)	Test Location	Majapur Village
Datagnativity	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

· · · ·	ALEXA LIGHT	RESULT			
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	13.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	17.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M³	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	26.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.375	≤ 2.0	IS 5182
08	Ammonia (NH3)	μg/M ³	4.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltor

Evoquil **Checked By**

(Mrs.Kadambari Deshmukh)

CONSIL IN * PUNE

Authorized Signatory Dr. Sandeep Jadhav Senior vice president

Customer complaint register is available in the laboratory Page 8 of 9

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12252/5
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist-	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand Upstream
Balaghat(M.P)	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

RESULT

and the second		4 S.U.M.		the second s	
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	11.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.0	≤ 80	IS 5182(Part 2)
03	Particulate Matter PM10 micron	µg/M ³	58.9	≤ 100	IS 5182 (Part 6)
04	Particulate Matter PM2.5 micron	µg/M ³	26.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	4.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.360	≤ 2.0	
08	Ammonia (NH ₃)	µg/M ³	4.8	≤ 400	IS 5182
09	Benzene (C6H6)	μg/M ³	BDL	≤ 5	APHA - 401
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL		IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤1	IS 5182
12	Nickel (Ni)	ng/ M ³	BDL	≤ 6 ≤ 20	APHA - AAS APHA - AAS

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REMARKS/OBSERVATIONS:

- > All above results are within National Ambient Ar Quality and ards. ANC
- > BDL: Below Detection Limit.

For MITCON Consultancy & Engineering Services ttd.

Checked By

(Mrs.Kadambari Deshmukh)

Authorized Signatory Or. Sandeep Jadhav Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

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MITC

Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12252/6
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand Down stream
	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/ hrs.(Avg)	SW

1.1		RESULT		A DESCRIPTION OF		
Sr. No.	Description	Unit	Results	CPCB standard	Test Method	
01	Sulphur Dioxide (SO ₂)	μg/M ³	11.0	≤80	IS 5182(Part 2)	
02	Oxides of Nitrogen (NO ₂)	μg/M ³	14.8	≤ 80	IS 5182(Part 6)	
03	Particulate Matter PM10 micron	μg/M ³	50.5	≤ 100	IS 5182 (Part 23)	
04	Particulate Matter PM2.5 micron	µg/M ³	24.0	≤ 60	USEPA 40 CFRCH	
05	Ozone (O3)	μg/M ³	4.0	≤ 100	IS 5182	
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS	
07	Carbon Monoxide (CO)	mg/M ³	0.312	≤ 2.0	IS 5182	
08	Ammonia (NH ₃)	μg/M ³	4.2	≤ 400	APHA - 401	
09	Benzene (C6H6)	µg/M ³	BDL	≤5	IS 5182	
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182	
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS	
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS	

BENGINEER

CONS.

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)

Dr sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Reference No.	MITCON/2022- 23/December/12252/7
Date of Monitoring	02/12/2022
Type of Monitoring	Ambient Air
Test Location	Near Pump house Balaghat water supply
Monitoring Done By	MITCON
Date of Analysis	05/12/2022
	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	12	40	1440	0.0	5.0 km/	SW
12					and the	hrs.(Avg)	1

RESULT

			Fi u	And the Water State	
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	61.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	µg/M ³	28,5	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	4.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.394	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.0	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

BENGINE All above results are within National Ambient Art Suality

BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Checked By OBDELUICh (Mrs.Kadambari Deshmukh)

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Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12252/8
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:-	Test Location	Near Kanki Village
Balaghat(M.P)	Monitoring Done By	MITCON
	Date of Analysis	05/12/2022

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	12	40	1440	0.0	5.0 km/	SW
				and the second second	1.67	hrs.(Avg)	120

		RESULT			
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	58.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	26.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	μg/M ³	4.0	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.346	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M ³	4.4	≤ 400	APHA - 401
09	Benzene (C6H6)	μg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services at

Kroetuk Checked By (Mrs.Kadambari Deshmukh)

6 SERI CON CONT * PUNE *

Mathorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12247/5
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L1=182.3004Ha Site,	Test Location	Near Mine Office
At & P.O.Bharweli, Tah.	Monitoring Done By	MITCON
Balaghat, Distt. Balaghat 481102	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	14.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	21.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	63.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	38.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	5.2	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.492	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.6	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

BDL: - Below Detection Limit.

NCY & ENGINEER For MITCON Consultancy & Engineering Services woenuk CON **Checked By** (Mrs.Kadambari Deshmukh)

Autho ized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12247/6
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L1=182.3004Ha Site,	Test Location	Near Main Gate
At & P.O.Bharweli, Tah.	Monitoring Done By	MITCON
Balaghat, Distt. Balaghat 481102	Date of Analysis	03/12/2022

OBSERVATION

RESULT

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

			ESOLI	and a state of the	A State of the second sec
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	15.4	≤80	IS 5182(Part 2)
02 .	Oxides of Nitrogen (NO ₂)	μg/M ³	22.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	76.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	42.4	ão ≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	5.4	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.508	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M ³	5.9	≤ 400	APHA - 401
09	Benzene (C6H6)	μg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Locy & ENGINEER

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(Mrs.Kadambari Deshmukh)

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Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12247/7
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L1=182.3004Ha Site,	Test Location	Near 6th Level
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Monitoring Done By	MITCON
Putuging Plots Putugine 201102	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

(and the		RESULT				
Sr. No.	Description	Unit	Results	CPCB standard	Test Method	
01	Sulphur Dioxide (SO ₂)	μg/M ³	14.6	≤80	IS 5182(Part 2)	
02	Oxides of Nitrogen (NO ₂)	µg/M ³	20.8	≤ 80	IS 5182(Part 6)	
03	Particulate Matter PM10 micron	μg/M ³	78.0	≤ 100	IS 5182 (Part 23)	
04	Particulate Matter PM2,5 micron	µg/M ³	44.2	≤ 60	USEPA 40 CFRCH	
05	Ozone (O3)	μg/M ³	5.8	≤ 100	IS 5182	
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS	
07	Carbon Monoxide (CO)	mg/M ³	0.522	≤ 2.0	IS 5182	
08	Ammonia (NH₃)	μg/M ³	6.3	≤ 400	APHA - 401	
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤5	IS 5182	
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182	
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS	
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS	

REMARKS/OBSERVATIONS:

- > All above results are within National Ambient Air Quality standards. 8 ENGINEERING
- BDL: Below Detection Limit.

For MITCON Consultancy & Engineering Services Ho

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(Mrs.Kadambari Deshmukh)

Huti rized Signatory Dr. Sandeep Jadhav Senior vice president

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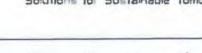
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Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12247/8
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
NUS MOIL EIMITED,	Type of Monitoring	Ambient Alr
Balaghat Manganese Mines L1=182.3004Ha Site,	Test Location	Near Hospital
At & P.O.Bharweli, Tah.	Monitoring Done By	MITCON
Balaghat, Distt. Balaghat 481102	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

RESULT

					ALL ASSA
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	17.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	62.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	µg/M ³	34.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	4.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.404	≤ 2.0	IS 5182
08	Ammonia (NH3)	μg/M ³	5.5	≤ 400	APHA - 401
09	Benzene (C6H6)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

> BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services HO & ENGINEER

(Mrs.Kadambari Deshmukh)



Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12248

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12248/2
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L2=0.789 Ha Site, At &	Test Location	Adarsh Colony
P.O.Bharweli, Tah.	Monitoring Done By	MITCON
Balaghat, Distt. Balaghat (MP) 481102	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	13.4	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	20.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	30.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	5.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.350	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.6	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services and

checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Solution for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12248

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12248/3
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L2=0.789 Ha Site, At &	Test Location	Bharweli Village
P.O.Bharweli, Tah.	Monitoring Done By	MITCON
Balaghat, Distt. Balaghat (MP) 481102	Date of Analysis	03/12/2022

OBSERVATION

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Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

Sr.	Description	Unit	Results	CPCB standard	Test Method
No.		2		and the state of the second	
01	Sulphur Dioxide (SO ₂)	μg/M ³	15.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	24.1	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	68.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 mlcron	μg/M ³	34.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	5.5	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.526	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	6.0	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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All above results are within National Ambient Air Quality standards.

BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd. & ENGINEER Checked By CONS, (Mrs.Kadambari Deshmukh) CONL

Author ed Signatory Dr. Sandeep Jadhav Senior vice president

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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12249/4
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L3=76.409 Ha Site,	Test Location	Awalajare Village
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat	Monitoring Done By	MITCON
(MP) 481102 (M.P)	Date of Analysis	03/12/2022
		and the second

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

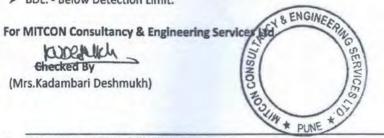
RESULT

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	12.5	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	62.8	<u>≤</u> 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	30.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	3.6	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.340	≤ 2.0	IS 5182
08	Ammonia (NH3)	μg/M ³	3.6	≤ 400	APHA - 401
09	Benzene (C6H6)	μg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

> BDL: - Below Detection Limit.



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Format No. EME/LAB/Format 7.8/TR

Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12249/5
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
Balaghat Manganese Mines L3=76.409 Ha Site,	Test Location	Shivni Camp
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat	Monitoring Done By	MITCON
(MP) 481102 (M.P)	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

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J.	234	1.1

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	62.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	µg/M ³	28.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	3.7	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.350	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	μg/M ³	5.0	≤ 400	APHA - 401
09	Benzene (C6H6)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

& ENGINEE For MITCON Consultancy & Engineering Services adetuk CONSLI **Checked By** (Mrs.Kadambari Deshmukh) A + PUNE *

Authorized Signatory Dr. Sandeep Jadhav Senior vice president

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Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12249/6
M/s MOIL LIMITED, Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Katangtolla Ward No. 3
	Monitoring Done By	MITCON
	Date of Analysis	03/12/2022

OBSERVATION

°C	°C	°C	Humidity % RH	Duration In Min	(mm)	Velocity	Direction
28	28	11	50	1440	0.0	3.0 km/	NNW

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO2)	μg/M ³	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	μg/M ³	64.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	μg/M ³	32.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	3.9	≤ 100	IS 5182
06	Lead (Pb)	μg/M ³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.361	≤2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.2	≤ 400	APHA - 401
09	Benzene (C6H6)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

> BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services (A)DLAWA Checked By (Mrs.Kadambari Deshmukh)



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Test Report

Report Number : MITCON/2022-23/December/12251

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12251/3
M/s MOIL LIMITED, Balaghat Railway Siding, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Private Office site
	Monitoring Done By	MITCON
	Date of Analysis	03/12/2022
	Bate of Analysis	03/12/2022

OBSERVATION

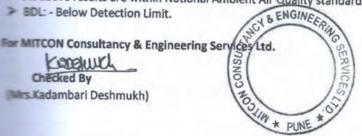
Ambient Temp.	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity	Wind Direction
28	28	11	50	1440	0.0	3.0 km/	NNW

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Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	μg/M ³	13.6	≤80	IS 5182(Part 2)
62	Oxides of Nitrogen (NO ₂)	µg/M ³	16.0	≤ 80	IS 5182(Part 6)
65	Particulate Matter PM10 micron	μg/M ³	68.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	µg/M ³	34.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	µg/M ³	5.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.452	≤ 2.0	IS 5182
80	Ammonia (NH ₃)	µg/M ³	5.3	≤ 400	APHA - 401
05	Benzene (C6H6)	µg/M ³	BDL	≤5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/M ³	BDL	<u>≤</u> 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	<u>≤6</u>	APHA - AAS
12	Nickel (Ni)	ng/M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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Test Report

Report Number : MITCON/2022-23/December/12251

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022- 23/December/12251/4
M/s MOIL LIMITED, Balaghat Railway Siding, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Weigh bridge
	Monitoring Done By	MITCON
	Date of Analysis	03/12/2022

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
28	28	11	50	1440	0.0	3.0 km/ hrs.(Avg)	NNW

12		RESULT	- P	and the second	1000
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	14.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	μg/M ³	17.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM10 micron	µg/M ³	70.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM2.5 micron	µg/M³	36.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O3)	μg/M ³	5.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.468	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	5.4	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	<u>≤1</u>	IS 5182
11	Arsenic (As)	ng/M ³	BDL	≤6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

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REMARKS/OBSERVATIONS:

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12254/9
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Noise
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Monitoring Done By	MITCON

READINGS

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Sr. No.	Test Location	Unit	Readings
01	Kanki Sand lease Pump house upstream	dB(A)	54.0
02	Kanki Sand lease Pump house down stream	dB(A)	51.2
03	500 m away from shiv mandir	dB(A)	53.8
04	Balaghat MC Pump house	dB(A)	60.0

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kuterentley Checked By (Mrs. Kadambari Deshmukh)



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Authorized Signatory Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12253/9
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Noise
Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:- Balaghat(M.P)	Monitoring Done By	MITCON

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Sr. No.	Test Location	Unit	Readings
01	Kanki Sand River Bank	dB(A)	58.0
02	Kanki Sand 500 m from River Bank	dB(A)	55.8
03	Garra Village	dB(A)	52.0
04	Majapur Village	dB(A)	49.2

REMARKS / OBSERVATIONS:

mits: The Madhya Pradesh Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during

Ex MITCON Consultancy & Engineering Services Ltd.

Dehuci Checked By Mrs. Kadambari Deshmukh)



orized Signatory Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12252/9
M/s MOIL LIMITED,	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Noise
Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:- Balaghat(M.P)	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Kanki Sand Upstream	dB(A)	51.8
02	Kanki Sand Down stream	dB(A)	49.4
03	Near Shiv Mandir	dB(A)	48.4
04	Near Kanki Village	dB(A)	53.0

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

apetluc Checked By (Mrs. Kadambari Deshmukh)



thorized Signatory Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12247/9
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
Balaghat Manganese Mines L1=182.3004Ha Site,	Type of Monitoring	Ambient Noise
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Near Mine Office	dB(A)	64.4
02	Near Main Gate	dB(A)	68.3
03	Near 6th Level	dB(A)	69.0
04	Near Hospital	dB(A)	52.8

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

anetuk **Checked By**

(Mrs. Kadambari Deshmukh)



uthonized Signatory Dr. Sandeep Jadhav

(Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/December/12248

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12248/4
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
Balaghat Manganese Mines L2=0.789 Ha Site, At	Type of Monitoring	Ambient Noise
& P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings
01	Adarsh Colony	dB(A)	53.9
02	Bharweli Village	dB(A)	52.7

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

WDenuch **Checked By** (Mrs. Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav (Senior Vice President)

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Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12249/7
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
Balaghat Manganese Mines L3=76.409 Ha Site,	Type of Monitoring	Ambient Noise
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Monitoring Done By	MITCON

READINGS

Sr. No.	Test Location	Unit	Readings	
01	Awalajare Village	dB(A)	52.8	
02	Shivni Camp	dB(A)	52.0	
03	Katangtolla Ward No. 3	dB(A)	49.9	

REMARKS / OBSERVATIONS:

The Madhya Pradesh Pollution Control Board has prescribe 75 dB (A) as an upper limit of Noise Level during

For MITCON Consultancy & Engineering Services LA ENGINEERING

Checked By Mrs. Kadambari Deshmukh)

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Quarter October- November- December 2022

Solutions for Sustainable Tomorrow

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Report Number : MITCON/2022-23/December/12251

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12251/5
M/s MOIL LIMITED,	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Noise
Balaghat Railway Siding,	Monitoring Done By	MITCON
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)		

Test Report

READINGS

ir. No.	Test Location	Unit	Readings
01	Near Private Office site	dB(A)	65.9
02	Near Weigh bridge	dB(A)	67.7

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Evoetur Checked By

(Mrs. Kadambari Deshmukh)



uthorized Signatory Or. Sandeep Jadhav (Senior Vice President)

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(Environmental Laboratory)

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12254/1	
	Name of Sample	Ground Water	
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist-	Sample Details	Kanki Sand lease Pump house upstream	
Balaghat(M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.13		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	314.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	157.2	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	39.25	mg/l	\$75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.62	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	137.1	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	32.00	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.09	mg/l	≤ 200	APHA 4500 SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.87	mg/l	<u>\$45</u>	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

• The above water sample is complying with required lines as percent 10500:2012.

For MITCON Consultancy & Engineering Services Ltd. CONSUI menuel Checked By (Mrs. Kadambari Deshmukh)

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(Dr.Sandeep Jadhav) Senior Vice President

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Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12254/2	
	Name of Sample	Ground water	
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:-	Sample Details	Kanki Sand lease Pump house down stream	
Balaghat(M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.10		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.5	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	343.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	171.55	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	42.88	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	21.45	mg/l	≤30	APHA 3500 Mg 8, 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	132.45	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	32.67	mg/l	s 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.55	mg/l	≤ 200	APHA 4500 - SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	6.02	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd

(Mrs. Kadambari Deshmukh)

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Authorized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12254/4	
	Name of Sample	Ground water	
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:-	Sample Details	Bore well water agriculture Land	
Balaghat(M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

01		Results	Unit	Limits as per IS 10500:2012	Test Methods
02	pH at 25C	7.10	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	s1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	297.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	148.2	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	37.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.62	mg/1	≤ 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	129.01	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	32.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.56	mg/l	≤ 200	APHA 4500 - SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS
14	Nitrate as NO3	5.50	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	15: 3025 Part+5 (Rev. 2, RA 2012)

atherized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12254

Issue Date:12/122022

Client's Name & Address	Sample Details		
	Sample Code	MITCON/2022-23/December/12254/3	
M/s MOIL LIMITED,	Name of Sample	Ground Water	
Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:-	Sample Details	Balaghat MC Pump House	
	Container Details	1 lit plastic can	
Balaghat(M.P)	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.29		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	387.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	180.2	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	42.12	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	22.10	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	134.2	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	34.41	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.32	mg/l	≤ 200	APHA 4500 - 504 - E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	5.78	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	Agreeabl	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

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REMARKS / OBSERVATIONS:

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

ON COR. For MITCON Consultancy & Engineering Services L KUDEHUEK Checked By (Mrs. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12253/1	
	Name of Sample	Ground Water	
Kanki (Balaghat) Sand Lease 5.503 Ha Site,	Sample Details	Kanki Sand River Bank	
Dist:-Balaghat(M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.18	44	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	\$1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	322.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	161.2	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	40.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	20.12	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	139.2	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	31.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.14	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	5.78	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	Agreeabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

Checked By

(Mrs. Kadambari Deshmukh)

CONSUL c SERVIC, ZO * * PUNE

uthorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12253/2	
·····	Name of Sample	Ground water	
Kanki (Balaghat) Sand Lease 5.503 Ha Site,	Sample Details	Kanki Sand 500 m from River Bank	
Dist:-Balaghat(M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	02/12/2022	
	Date of Sample Receipt	05/12/2022	
	Analysis Start Date	05/12/2022	
	End Date of Analysis	12/12/2022	

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	54	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	303.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	151.55	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	37.88	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.94	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	131.5	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 Cl	30.21	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	14.18	mg/l	≤ 200	APHA 4500 - SO4 - E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	5.20	mg/i	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

EMARKS / OBSERVATIONS:

or MITCON Consultancy & Engineering Services Ltd Checked By

Mrs. Kadambari Deshmukh)



thorized Signatory (Br. Sandeep Jadhav) Senior Vice President

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Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12253

Issue Date:12/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12253/3		
	Name of Sample	Ground Water		
Kanki (Balaghat) Sand Lease 5.503 Ha Site,	Sample Details	Garra Village Borewell		
Dist:-Balaghat(M.P)	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	02/12/2022		
	Date of Sample Receipt	05/12/2022		
	Analysis Start Date	05/12/2022		
	End Date of Analysis	12/12/2022		

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-6-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	\$1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	288.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	144.2	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	36.05	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.01	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	124.2	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	29.41	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	14.27	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	4.00	mg/l	\$45	APHA 4500 NO3-B,4-127 23rd Ed 2017 (Using AAS)
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	Agreeabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd avefuch **Checked By**

[Mrs. Kadambari Deshmukh)

ON CONSI. SERVIC A PUNE * é

thorized Signatory (Br.Sandeep Jadhav) Senior Vice President

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Environment Management and Engineering Division

(Environmental Laboratory)

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Ph. No. 66289405/400, email: emelab@mltconindia.com

- ISO 45001:2018 (OHSAS)Certified Laboratory.
- MoEF & CC recognized laboratory

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address		Sample Details
M/s MOIL LIMITED,	Sample Code	MITCON/2022- 23/December/12252/1
Kanki (Balaghat) Sand Lease 10.156 Ha Site,	Name of Sample	Ground Water
Dist:-Balaghat(M.P)	Sample Details	Kanki Sand lease upstream
	Container Details	1 lit plastic can
	Sample Collected By	MITCON
	Method of sampling	IS 3025(Part I)
	Sample Collected On	02/12/2022
	Date of Sample Receipt	05/12/2022
	Analysis Start Date	05/12/2022
	End Date of Analysis	12/12/2022

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	1	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.5	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	51	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	312.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	156.1	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	39.01	mg/i	\$ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.50	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	136.01	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	31.10	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.28	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	4.57	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E,coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

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REMARKS / OBSERVATIONS:

The above water sample is complying with read real of the per IS 10500:2012. .

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For MITCON Consultancy & Engineering Services Experimen

Checked By

(Mrs. Kadambari Deshmukh)

(Df.Sandeep Jadhav)

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Senior Vice President

Environment Management and Engineering Division

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Solutions for Sustainable Tomorrow

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12252/2		
	Name of Sample	Ground water		
Kanki (Balaghat) Sand Lease 10.156 Ha Site,	Sample Details	Kanki Sand lease Down stream 1 lit plastic can		
Dist:-Balaghat(M.P)	Container Details			
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	02/12/2022		
	Date of Sample Receipt	05/12/2022		
	Analysis Start Date	05/12/2022		
	End Date of Analysis	12/12/2022		

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	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	314.0	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	157.02	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	39.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.62	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	131.22	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	34.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.89	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	4.92	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	Agreeabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd Checked By CODELWCA (Mrs. Kadambari Deshmukh)

APACY & EAGIN ... NOU IN + PUNE

uthorized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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Quarter October- November- December 2022

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12252/3		
	Name of Sample	Ground Water		
Kanki (Balaghat) Sand Lease 10.156 Ha Site,	Sample Details	Kanki Village Borewell 1 lit plastic can		
Dist:-Balaghat(M.P)	Container Details			
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	02/12/2022		
	Date of Sample Receipt	05/12/2022		
	Analysis Start Date	05/12/2022		
	End Date of Analysis	12/12/2022		

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.22	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	274.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	137.15	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	34.28	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	17.14	mg/l	s 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	117.15	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	32.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.78	mg/l	≤ 200	APHA 4500 - SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.3	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	Agreeabl	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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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)

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Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Quarter October- November- December 2022

Solutions for Sustainable Tomorrow

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Test Report

Report Number : MITCON/2022-23/December/12252

Issue Date:12/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12252/4		
	Name of Sample	Ground water		
Kanki (Balaghat) Sand Lease 10.156 Ha Site,	Sample Details	MOIL Water supply pump house 1 lit plastic can		
Dist:-Balaghat(M.P)	Container Details			
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	02/12/2022		
	Date of Sample Receipt	05/12/2022		
	Analysis Start Date	05/12/2022		
	End Date of Analysis	12/12/2022		

ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	+	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	<5	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	356.7	mg/i	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	178.3	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	42.3	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	22.9	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	142.4	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	34.17	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.22	mg/l	≤ 200	APHA 4500 - SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	6.01	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

For MITCON Consultancy & Engineering Services Ltd. CON CHECKED BY NOSHIW * PUNE *

(Mrs. Kadambari Deshmukh)

thorized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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Solutions for Sustainable Tomorrow

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address		Sample Details	
	Sample Code	MITCON/2022-23/December/12247/1	
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Name of Sample	Ground Water	
	Sample Details	Water Tank Under Ground Source	
	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
Dalagua, Dist. Dullaguar 101101	Method of sampling	IS 3025(Part I)	
	Sample Collected On	01/12/2022	
	Date of Sample Receipt	03/12/2022	
	Analysis Start Date	03/12/2022	
	End Date of Analysis	09/12/2022	

			ANALYS	S RESULTS	
Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	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	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	224.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	112.05	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	28.01	mg/l	\$75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	14.00	mg/l	<u>≤</u> 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	92.06	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	32.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.18	mg/l	≤ 200	APHA 4500 SO4 E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.01	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100 ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100 ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

15 10500:2012.

For MITCON Consultancy & Engineering Services Ltd

Checked By

(Mrs. Kadambari Deshmukh)

 The above water sample is complying with required limits as the million of t No SERVICES in * PUNE *

Signatory Autho Dr. Sandeep Jadhav (Senior Vice President)

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Quarter October- November- December 2022

Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12247/2		
Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Name of Sample	Ground Water		
	Sample Details	Drinking water at Admin Office		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	01/12/2022		
	Date of Sample Receipt	03/12/2022		
	Analysis Start Date	03/12/2022		
	End Date of Analysis	09/12/2022		

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Sr.	Characteristic	Results	Unit	IS 10500:2012	Tool Blacks de
No.			Onit	Required (Acceptable Limit)	Test Methods
01	pH at 250C	7.20	1 - 1	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A ; 2002)
04	Total Dissolved Solids	305.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	152.6	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	38.15	mg/l	\$ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.05	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	132.4	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	32.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 201
12	Sulphate as SO4	15.98	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	3.46	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	1 & ENGReeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Lto

(Mrs. Kadambari Deshmukh)



(Dr.Sandeep Jadhav) Septor Vice President

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Quarter October- November- December 2022

Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12247/3		
	Name of Sample	Ground water		
Balaghat Manganese Mines L1=182.3004Ha Site,	Sample Details	Water at Hospital Borewell		
At & P.O.Bharweli, Tah.	Container Details	1 lit plastic can		
Balaghat, Distt. Balaghat 481102	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	01/12/2022		
	Date of Sample Receipt	03/12/2022		
	Analysis Start Date	03/12/2022		
	End Date of Analysis	09/12/2022		

Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	Test Methods
01	pH at 250C	7.23		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S HER	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	\$1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	345.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	172.5	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	43.13	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	21.56	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	132.8	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	38.5	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 201
12	Sulphate as SO4	18.8	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	6.2	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)
Che	KS / OBSERVATIONS: CON Consultancy & Engi CON Consultancy & Engi CON Consultancy & Engi Consultancy & Engi Consultancy & Engineering Consultancy & E	neering Service	Agreeable es Lto Short	And SERVICE	Authorized Signatory (Dr. Sandeep Jadhav)

Checked By

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Authorized Signatory (Dr/Sandeep Jadhav) Senior Vice President

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Quarter October- November- December 2022

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Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12247

Issue Date: 09/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12247/4	
Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah.	Name of Sample	Ground Water	
	Sample Details	Drinking water at Officer Colony	
	Container Details	1 lit plastic can	
Balaghat, Distt. Balaghat 481102	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	01/12/2022	
	Date of Sample Receipt	03/12/2022	
	Analysis Start Date	03/12/2022	
	End Date of Analysis	09/12/2022	

ANALYSIS RESULTS

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Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	Test Methods
01	pH at 250C	7.20	1323	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1 5000	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	312.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	156.1	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	39.4	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.5	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	129.6	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	34.2	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.3	mg/l	≤ 200	APHA 4500 -SO4E, 4-199 TO 4-200, 23rd Ec 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	4.3	mg/l	<u>≤45</u>	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

For MITCON Consultancy & Engineering Services Ltd SERVI HAN * PUNE *

ized Signatory (Dr.Sendeep Jadhav) Senior Vice President

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Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12248

Issue Date:09/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12248/1		
Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O.Bharweli, Tah.	Name of Sample	Ground Water		
	Sample Details	Adarsh Colony Water supply		
	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
Balaghat, Distt. Balaghat (MP) 481102	Method of sampling	IS 3025(Part I)		
	Sample Collected On	01/12/2022		
	Date of Sample Receipt	03/12/2022		
	Analysis Start Date	03/12/2022		
	End Date of Analysis	09/12/2022		

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	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	269.3	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	134.65	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	33.66	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	16.83	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	114.65	mg/l	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	mg/l	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	34.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.02	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	4.56	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	Agreeabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

The above water sample is complying with pequired limits a ٠ per IS 10500:2012.

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For MITCON Consultancy & Engineering Services

Checked By

(Mrs. Kadambari Deshmukh)

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Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022- 23/December/12249/1		
Balaghat Manganese Mines L3=76.409 Ha Site,	Name of Sample	Ground Water		
At & P.O.Bharweli, Tah. Balaghat, Distt.	Sample Details	Awalajare Village Borewell		
Balaghat (MP) 481102 (M.P)	Container Details	1 lit plastic can		
	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	01/12/2022		
	Date of Sample Receipt	03/12/2022		
	Analysis Start Date	03/12/2022		
	End Date of Analysis	09/12/2022		

ANALYSIS RESULTS

57. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	Prome d	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
82	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
08	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	247.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
65 ,	Total Hardness as CaCO3	123.7	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	30.9	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	15.4	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
89	Total Alkalinity as Caco3	103.2	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
20	Fluoride as F	< 0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	32.21	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	16.23	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	3.67	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017
25	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
15	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	<5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

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Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Sample Details			
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12249/2		
•	Name of Sample	Ground Water		
Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt.	Sample Details	Shivni Camp Borewell		
	Container Details	1 lit plastic can		
Balaghat (MP) 481102 (M.P)	Sample Collected By	MITCON		
	Method of sampling	IS 3025(Part I)		
	Sample Collected On	01/12/2022		
	Date of Sample Receipt	03/12/2022		
	Analysis Start Date	03/12/2022		
	End Date of Analysis	09/12/2022		

ANALYSIS RESULTS

Sr. Parameters No.	Results	Unit	Limits as per IS 10500:2012	Test Methods
01 pH at 25C	7.28	÷ .	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02 Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
03 Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04 Total Dissolved So	lids 284.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05 Total Hardness as CaCO3	142.1	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06 Calcium as Ca	35.5	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07 Magnesium as Mg	3 17.7	mg/l	s 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	122.2	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	32.01	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12 Sulphate as SO4	16.78	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	3.55	mg/l	s45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15 E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
15 Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17 colour	< 5.0	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
us odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)
15 odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

The above water sample is complying with required limits are reliable in 10500:2012.

For MITCON Consultancy & Engineering Services Ltd. ON CON

Copeleukh By

(Mass. Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senjor Vice President

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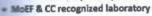
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Solutions for Sustainable Tomorrow

Test Report

Report Number : MITCON/2022-23/December/12249

Issue Date:09/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12249/3	
Salaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Name of Sample	Ground Water	
	Sample Details	Katangtolla Ward No. 3 Borewell	
	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	01/12/2022	
	Date of Sample Receipt	03/12/2022	
	Analysis Start Date	03/12/2022	
	End Date of Analysis	09/12/2022	

ANALYSIS RESULTS

9. 10.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01.	pH at 25C	7.18		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
52	Total suspended solids	<5	mg/l	Ń.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
63	Turbidity	<1	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
54	Total Dissolved Solids	298.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
10	Total Hardness as CaCO3	149.01	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	37.25	mg/l	≤75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	18.62	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	129.3	Mg/I	<200	APHA 2320 B ,2-37 to 2-39 23rd Ed 2017
20	Fluoride as F	<0.1	Mg/I	<1	APHA 4500 F- D 4-90 to 4-9123rd Ed 2017
11	Chloride as Cl	32.4	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	17.8	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	4.56	mg/l	\$45	APHA 4500 NO3-B,4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
35	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

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For MITCON Consultancy & Engineering Services

Concluttly

Kadambari Deshmukh)

Authorized Signatory (Dr.Sandeep Jadhav) Senior Vice President

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Solutions for Sustainable Tomorrow

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Test Report

Report Number : MITCON/2022-23/December/12251

Issue Date:09/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12251/1	
and a second second second second	Name of Sample	Ground Water	
Balaghat Railway Siding,	Sample Details	Near Office site bore well	
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	01/12/2022	
	Date of Sample Receipt	03/12/2022	
	Analysis Start Date	03/12/2022	
	End Date of Analysis	09/12/2022	

ANALYSIS RESULTS

12 10	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
02	pH at 25C	7.19	A CONTRACTOR OF	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
12	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D,2-70 to 2-71 23rd ed 2017
33	Turbidity	< 1.0	NTU	≤1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	304.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
10	Total Hardness as CaCO3	152.05	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
06	Calcium as Ca	38.01	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
07	Magnesium as Mg	19.00	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	132.0	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	31.12	mg/l	s 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.02	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	4.12	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	Agreeabl e	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

The above water sample is complying with reading timits as per IS 10500:2012.
 MITCON Consultancy & Engineering Services 40.

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For MITCON Consultancy & Engineering Services 40. CODEHUICH Checked By

(Mrs. Kadambari Deshmukh)

(Dr.Sandeep Jadhav) Senior Vice President

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SERVICES

Environment Management and Engineering Division (Environmental Laboratory)

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ISO 45001:2018 (OHSAS)Certified Laboratory.

MoEF & CC recognized laboratory

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Solutions for Sustainable Tomorrow

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/December/12251

Issue Date:09/12/2022

Client's Name & Address	Sample Details		
M/s MOIL LIMITED,	Sample Code	MITCON/2022-23/December/12251/2	
	Name of Sample	Ground water	
Balaghat Railway Siding,	Sample Details	Railway Siding water supply	
At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Container Details	1 lit plastic can	
	Sample Collected By	MITCON	
	Method of sampling	IS 3025(Part I)	
	Sample Collected On	01/12/2022	
	Date of Sample Receipt	03/12/2022	
	Analysis Start Date	03/12/2022	
	End Date of Analysis	09/12/2022	

ANALYSIS RESULTS

9. 16.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
<u>81</u>	pH at 25C	7.23		6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
8	Total suspended solids	< 5	mg/1	N.5	APHA 2540 D,2-70 to 2-71 23rd ed 2017
8	Turbidity	<1	NTU	51	IS: 3025 Part-10 (R.A : 2002)
34	Total Dissolved Solids	345.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
10	Total Hardness as CaCO3	172.55	mg/l	≤200	APHA 2340 C ,2-48 to 2-50,23rd Ed 2017
N.	Calcium as Ca	43.13	mg/l	≤ 75	APHA 3500 Ca B , 3-69 to 3-70 , 23rd Ed. 2017
	Magnesium as Mg	21.56	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
109	Total Alkalinity as Caco3	138.24	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
道	Chloride as Cl	34.21	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as \$04	18.92	mg/l	≤200	APHA 4500 – SO4 – E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
24	Nitrate as NO3	4.97	mg/l	≤45	APHA 4500 NO3-B,4-127 23rd Ed 2017 (dsing AAS)
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
15	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
IJ	colour	<5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeabl	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

(Mrs. Kadambari Deshmukh)

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thørized Signatory (Dr. Sandeep Jadhav) Senior Vice President

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