

MITCON Consultancy & Engineering Services Ltd.
 Environment Management and Engineering Division
 (Environmental Laboratory)

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

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- 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/12254

Issue Date:12/122022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12254/5
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand lease Pump house upstream
	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	15.6	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.0	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.342	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.5	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By

(Mrs.Kadambari Deshmukh)



(Signature)

Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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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, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	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 PM ₁₀ micron	µg/M ³	50.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	23.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.2	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.324	≤ 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 *Kupenulch*
(Mrs.Kadambari Deshmukh)



(Signature)
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

MITCON Consultancy & Engineering Services Ltd.
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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, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Date of Monitoring	02/12/2022
	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

Ambient Temp. °C	Dry Bulb Temp. °C	Wet Bulb Temp. °C	Relative Humidity % RH	Sampling Duration In Min	Rainfall (mm)	Wind Velocity hrs.(Avg)	Wind Direction
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	11.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	56.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	23.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.6	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.338	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.8	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd

Kondambara
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12254/8
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist- Balaghat(M.P)	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

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	12.2	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	32.8	≤ 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	0.420	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.3	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:-

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

For MITCON Consultancy & Engineering Services Ltd.

K. Deshmukh
 Checked By
 (Mrs.Kadambari Deshmukh)



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

Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

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, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand River Bank
	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	12.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	54.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.218	≤ 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

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



SJD

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

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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, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Kanki Sand 500 m from River Bank
	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	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 PM ₁₀ micron	µg/M ³	53.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	2.8	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.224	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	3.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



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

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Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12253/7
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Garra Village
	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	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 PM ₁₀ micron	µg/M ³	57.6	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	25.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.0	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.366	≤ 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 Ltd.

Checked By Kadambari Deshmukh

(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav

Authorized Signatory

Dr. Sandeep Jadhav

Senior vice president

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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, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:- Balaghat(M.P)	Date of Monitoring	02/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Majapur Village
	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	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 PM ₁₀ micron	µg/M ³	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.375	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
checked By

(Mrs.Kadambari Deshmukh)



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

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12252/5
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 Upstream
	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	11.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	26.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.4	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.360	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.8	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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- > BDL: - Below Detection Limit.

For MITCON Consultancy & Engineering Services Ltd.

Kundakuch
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav

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/12252/6
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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	11.0	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	14.8	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	50.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	24.0	≤ 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	0.312	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By

(Mrs.Kadambari Deshmukh)



Sandeep
 Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12252/7
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	Near Pump house Balaghat water supply
	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	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.3	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	61.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.5	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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:

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

For MITCON Consultancy & Engineering Services Ltd

Checked By Kadambari
(Mrs.Kadambari Deshmukh)



Dr. Sandeep Jadhav

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12252/8
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	Near Kanki Village
	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	11.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	15.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	58.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} 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 (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

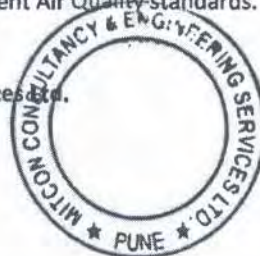
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services etc.

Kadambari Deshmukh
 Checked By

(Mrs.Kadambari Deshmukh)



Sandeep Jadhav

Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date: 09/12/2022

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

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 PM ₁₀ micron	µg/M ³	63.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	38.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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.

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date: 09/12/2022

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

RESULT

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 PM ₁₀ micron	µg/M ³	76.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	42.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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 (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By

(Mrs.Kadambari Deshmukh)



Sandeep
 Authorized Signatory

Dr. Sandeep Jadhav
 Senior vice president

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Test Report

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

Issue Date: 09/12/2022

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

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 PM ₁₀ micron	µg/M ³	78.0	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	44.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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 (NH ₃)	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

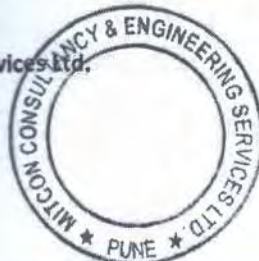
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs.Kadambari Deshmukh)



Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Quarter October- November- December 2022

Test Report

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

Issue Date: 09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12247/8
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Near Hospital
	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 hrs.(Avg)	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	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 PM ₁₀ micron	µg/M ³	62.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.4	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	4.6	≤ 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 (NH ₃)	µg/M ³	5.5	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
 Checked By

(Mrs.Kadambari Deshmukh)



(Signature)

Authorized Signatory
 Dr. Sandeep Jadhav
 Senior vice president

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Quarter October- November- December 2022

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, Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102	Date of Monitoring	01/12/2022
	Type of Monitoring	Ambient Air
	Test Location	Adarsh Colony
	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

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 PM ₁₀ micron	µg/M ³	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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

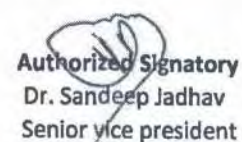
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.



(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/12248

Issue Date:09/12/2022

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

RESULT

Sr. No.	Description	Unit	Results	CPCB standard	Test Method
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 PM ₁₀ micron	µg/M ³	68.4	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.2	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



(Signature)
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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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, 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	Awalajare Village
	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

RESULT

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 PM ₁₀ micron	µg/M ³	62.8	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	30.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	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 (NH ₃)	µg/M ³	3.6	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Sandeep Jadhav
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12249/5
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	Shivni Camp
	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

RESULT

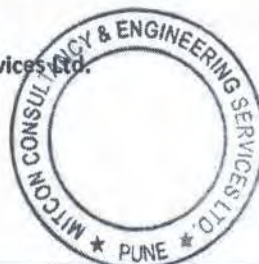
Sr. No.	Description	Unit	Results	CPCB standard	Test Method
01	Sulphur Dioxide (SO ₂)	µg/M ³	12.8	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.4	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	62.3	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	28.6	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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 (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari Deshmukh
checked By
(Mrs.Kadambari Deshmukh)



Sandeep Jadhav
Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

Report Number : MITCON/2022-23/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

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	12.9	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.2	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	64.5	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	32.8	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	µg/M ³	3.9	≤ 100	IS 5182
06	Lead (Pb)	µg/M ³	BDL	≤ 1.0	APHA - AAS
07	Carbon Monoxide (CO)	mg/M ³	0.361	≤ 2.0	IS 5182
08	Ammonia (NH ₃)	µg/M ³	4.2	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

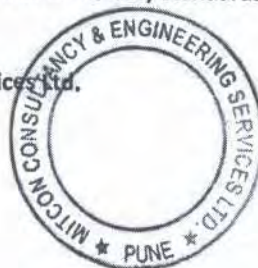
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Dr. Sandeep

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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

Report Number : MITCON/2022-23/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

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	13.6	≤80	IS 5182(Part 2)
02	Oxides of Nitrogen (NO ₂)	µg/M ³	16.0	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	68.9	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	34.7	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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
08	Ammonia (NH ₃)	µg/M ³	5.3	≤ 400	APHA - 401
09	Benzene (C ₆ H ₆)	µg/M ³	BDL	≤ 5	IS 5182
10	Benzo(a)Pyrene (BaP)	ng/ M ³	BDL	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (NI)	ng/ M ³	BDL	≤ 20	APHA - AAS

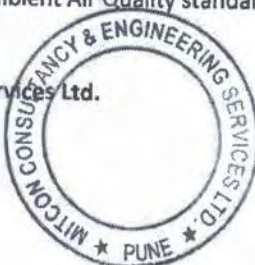
REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



[Signature]

Authorized Signatory
Dr. Sandeep Jadhav
Senior vice president

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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/12251/4
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

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	17.5	≤ 80	IS 5182(Part 6)
03	Particulate Matter PM ₁₀ micron	µg/M ³	70.2	≤ 100	IS 5182 (Part 23)
04	Particulate Matter PM _{2.5} micron	µg/M ³	36.9	≤ 60	USEPA 40 CFRCH
05	Ozone (O ₃)	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	≤ 1	IS 5182
11	Arsenic (As)	ng/ M ³	BDL	≤ 6	APHA - AAS
12	Nickel (Ni)	ng/ M ³	BDL	≤ 20	APHA - AAS

REMARKS/OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs.Kadambari Deshmukh)



Sandeep
Authorized Signatory

Dr. Sandeep Jadhav
Senior vice president

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Test Report

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

Issue Date:12/122022

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

READINGS

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.

Kadambari
 Checked By
 (Mrs. Kadambari Deshmukh)



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

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Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

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

READINGS

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:

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.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



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

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	Reference No.	MITCON/2022-23/December/12252/9
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 Noise
	Monitoring Done By	MITCON

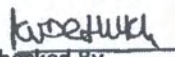
READINGS

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.


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/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

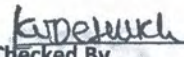
READINGS

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.


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/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 & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102	Type of Monitoring	Ambient Noise
	Monitoring Done By	MITCON

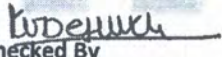
READINGS

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.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
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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/12249/7
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 Noise
	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:

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.

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/12251

Issue Date:09/12/2022

Client's Name & Address	Reference No.	MITCON/2022-23/December/12251/5
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 Noise
	Monitoring Done By	MITCON

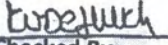
READINGS

Sr. 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.


Checked By
(Mrs. Kadambari Deshmukh)




Authorized Signatory
Dr. Sandeep Jadhav
(Senior Vice President)

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist- Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12254/1
	Name of Sample	Ground Water
	Sample Details	Kanki Sand lease Pump house 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	7.13	-	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	137.1	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.00	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	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By
Rosehukh
(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Environment Management and Engineering Division
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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist- Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12254/2
	Name of Sample	Ground water
	Sample Details	Kanki Sand lease Pump house down stream
	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

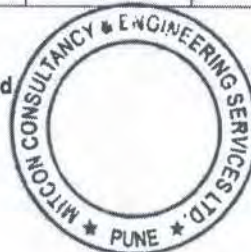
ANALYSIS RESULTS

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.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	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 B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	132.45	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.67	mg/l	≤ 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

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	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12254/4
	Name of Sample	Ground water
	Sample Details	Bore well water agriculture Land
	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.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	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/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	129.01	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.12	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	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



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

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Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 4.413 Ha Site, Dist:- Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12254/3
	Name of Sample	Ground Water
	Sample Details	Balaghat MC Pump House
	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	7.29		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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	134.2	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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 -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	5.78	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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12253/1
	Name of Sample	Ground Water
	Sample Details	Kanki Sand River Bank
	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		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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	139.2	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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-SO4- -, 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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

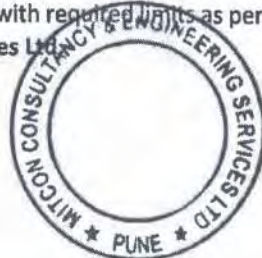
REMARKS / OBSERVATIONS:


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

For MITCON Consultancy & Engineering Services Ltd.

Checked By 

(Mrs. Kadambari Deshmukh)




Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12253/2
	Name of Sample	Ground water
	Sample Details	Kanki Sand 500 m from River Bank
	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

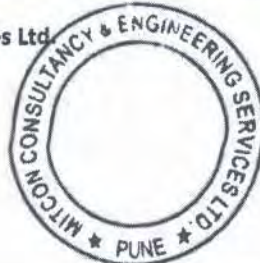
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	303.1	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	131.5	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	30.21	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/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd

Checked By
Kadambari

(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/12253

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist:-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12253/3
	Name of Sample	Ground Water
	Sample Details	Garra Village Borewell
	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	-	6.5 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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	124.2	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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 -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	4.00	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

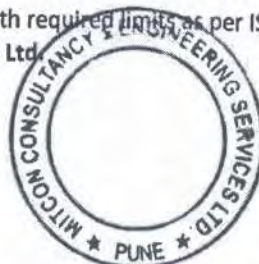
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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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, Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist-Balaghat(M.P)		Sample Code	MITCON/2022-23/December/12252/1
		Name of Sample	Ground Water
		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	-	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	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/l	≤ 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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	136.01	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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 -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	4.57	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)

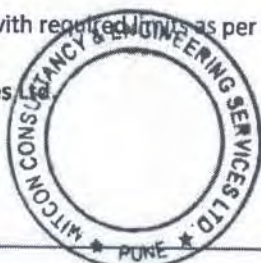
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



JD

Authorized Signatory

(Dr. Sandeep Jadhav)

Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:12/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12252/2
	Name of Sample	Ground water
	Sample Details	Kanki Sand lease Down stream
	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

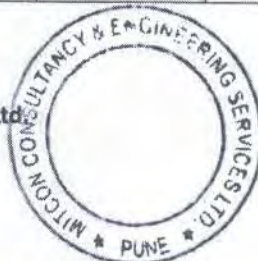
ANALYSIS RESULTS

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.19	-	6.5 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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	131.22	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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-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	4.92	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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kadambari Deshmukh
(Mrs. Kadambari Deshmukh)



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

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MITCON Consultancy & Engineering Services Ltd.Environment Management and Engineering Division
(Environmental Laboratory)

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

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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, Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12252/3
	Name of Sample	Ground Water
	Sample Details	Kanki Village Borewell
	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	7.22	-	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	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	117.15	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.12	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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

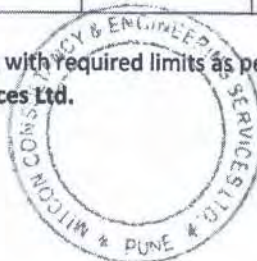
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



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

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MITCON Consultancy & Engineering Services Ltd.

Environment Management and Engineering Division

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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, Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist:-Balaghat(M.P)	Sample Code	MITCON/2022-23/December/12252/4
	Name of Sample	Ground water
	Sample Details	MOIL Water supply pump house
	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

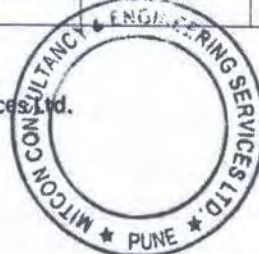
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.24	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	356.7	mg/l	≤ 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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	142.4	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
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/12247

Issue Date: 09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Sample Code	MITCON/2022-23/December/12247/1
	Name of Sample	Ground Water
	Sample Details	Water Tank Under Ground Source
	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

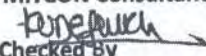
ANALYSIS RESULTS

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, 4-9S, 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	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	92.06	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.23	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)

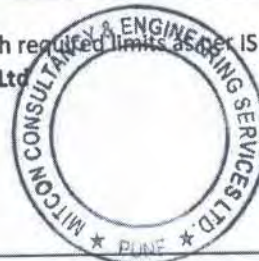
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By


(Mrs. Kadambari Deshmukh)



Authorized Signatory

Dr. Sandeep Jadhav
 (Senior Vice President)

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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	
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Sample Code	MITCON/2022-23/December/12247/2
	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

ANALYSIS RESULTS

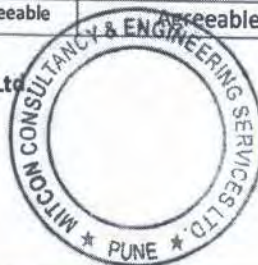
Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	Test Methods
01	pH at 250C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.5	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as Caco3	132.4	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.23	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.98	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	3.46	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	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Quarter October- November- December 2022

Test Report

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

Issue Date: 09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Sample Code	MITCON/2022-23/December/12247/3
	Name of Sample	Ground water
	Sample Details	Water at Hospital 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

Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	Test Methods
01	pH at 25OC	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	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	132.8	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	38.5	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.8	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	6.2	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr. Sandeep Jadhav)
Senior Vice President

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MITCON Consultancy & Engineering Services Ltd.
Environment Management and Engineering Division
(Environmental Laboratory)

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

- ISO 45001:2018 (OHSAS) Certified Laboratory.
- 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/12247

Issue Date: 09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L1=182.3004Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat 481102	Sample Code	MITCON/2022-23/December/12247/4
	Name of Sample	Ground Water
	Sample Details	Drinking water at Officer Colony
	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

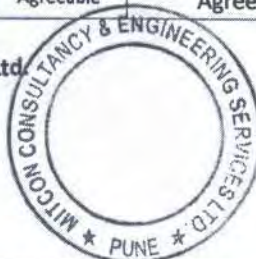
ANALYSIS RESULTS

Sr. No.	Characteristic	Results	Unit	IS 10500:2012 Required (Acceptable Limit)	Test Methods
01	pH at 250C	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	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	129.6	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	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 -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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By
(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102	Sample Code	MITCON/2022-23/December/12248/1
	Name of Sample	Ground Water
	Sample Details	Adarsh Colony Water supply
	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

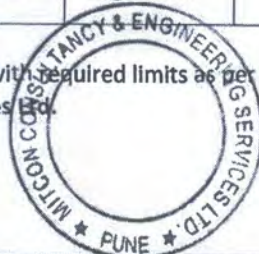
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.20	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5.0	mg/l	N.S	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1.0	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	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 4-91 23rd 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 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.56	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By
 (Mrs. Kadambari Deshmukh)



Authorized Signatory
 (Dr. Sandeep Jadhav)
 Senior Vice President

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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, Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Sample Code	MITCON/2022-23/December/12249/1
	Name of Sample	Ground Water
	Sample Details	Awalajare Village 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

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	< 5.0	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	247.4	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	103.2	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.21	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
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

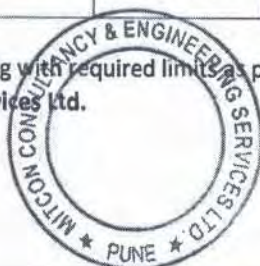
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By
Kadambari Deshmukh

(Mrs. Kadambari Deshmukh)



Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

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

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

Issue Date:09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Sample Code	MITCON/2022-23/December/12249/2
	Name of Sample	Ground Water
	Sample Details	Shivni Camp 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

Sr. No.	Parameters	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 Solids	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	17.7	mg/l	≤ 30	APHA 3500 Mg B, 3-86, 23rd Ed. 2017
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	122.2	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.01	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 -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	3.55	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	< 5.0	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

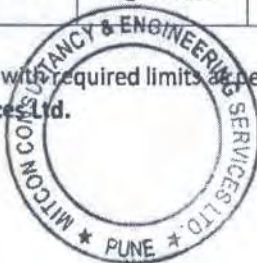
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Kadambari
Checked By

(Mrs. Kadambari Deshmukh)



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

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Quarter October- November- December 2022

Test Report

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

Issue Date:09/12/2022

Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Sample Code	MITCON/2022-23/December/12249/3
	Name of Sample	Ground Water
	Sample Details	Katangolla 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

Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.18	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	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	298.2	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	129.3	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	32.4	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-SO4--E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	4.56	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

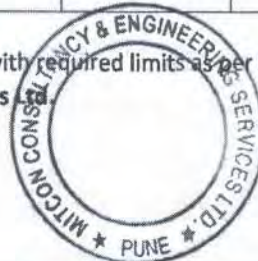
REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By
Kadambari

(Mrs. Kadambari Deshmukh)



Authorized Signatory

(Dr.Sandeep Jadhav)

Senior Vice President

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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, Balaghat Railway Siding, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Sample Code	MITCON/2022-23/December/12251/1
	Name of Sample	Ground Water
	Sample Details	Near Office site bore well
	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

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	304.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	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
08	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	132.0	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	31.12	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	15.02	mg/l	≤ 200	APHA 4500 -SO4- -E, 4-199 TO 4-200, 23rd Ed 2017
13	Iron as Fe	< 0.05	mg/l	≤ 0.3	APHA 3111 B, 3-18 TO 3-21, 23rd Ed 2017 (using AAS)
14	Nitrate as NO3	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	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

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

For MITCON Consultancy & Engineering Services Ltd.

Checked By Kadambari

(Mrs. Kadambari Deshmukh)




Authorized Signatory

(Dr.Sandeep Jadhav)
Senior Vice President

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Format No. EME/LAB/Format 7.8/TR

Quarter October- November- December 2022

Test Report

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

Issue Date:09/12/2022

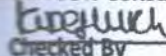
Client's Name & Address	Sample Details	
M/s MOIL LIMITED, Balaghat Railway Siding, At & P.O.Bharweli, Tah. Balaghat, Distt. Balaghat (MP) 481102 (M.P)	Sample Code	MITCON/2022-23/December/12251/2
	Name of Sample	Ground water
	Sample Details	Railway Siding water supply
	Container Details	1 lit plastic 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

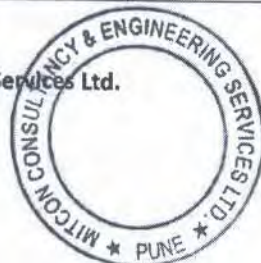
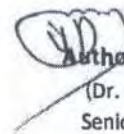
Sr. No.	Parameters	Results	Unit	Limits as per IS 10500:2012	Test Methods
01	pH at 25C	7.23	-	6.5 to 8.5	APHA 4500 H+, A, 4-95, 23rd Ed 2017
02	Total suspended solids	< 5	mg/l	N.5	APHA 2540 D, 2-70 to 2-71 23rd ed 2017
03	Turbidity	< 1	NTU	≤ 1	IS: 3025 Part-10 (R.A : 2002)
04	Total Dissolved Solids	345.1	mg/l	≤ 500	APHA 2540 C, 2-69 to 2-70, 23rd Ed 2017
05	Total Hardness as CaCO3	172.55	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	Manganese as mn	< 0.1	mg/l	< 0.1	APHA 3111 B, 3-18 to 3-21 23rd Ed. 2017
09	Total Alkalinity as CaCO3	138.24	Mg/l	< 200	APHA 2320 B, 2-37 to 2-39 23rd Ed 2017
10	Fluoride as F	< 0.1	Mg/l	< 1	APHA 4500 F- D 4-90 to 4-91 23rd Ed 2017
11	Chloride as Cl	34.21	mg/l	≤ 250	APHA 4500 Cl, B, 4-75 to 4-76, 23rd Ed 2017
12	Sulphate as SO4	18.92	mg/l	≤ 200	APHA 4500-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	4.97	mg/l	≤ 45	APHA 4500 NO3-B, 4-127 23rd Ed 2017
15	E.coli	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
16	Total Coliform	Absent	MPN/100ml	Absent	IS: 1622 (R.A : 2014)
17	colour	< 5	HZ	≤ 5	IS: 3025 Part-4 (Rev.1, RA 2012)
18	odour	Agreeable	Agreeable	Agreeable	IS: 3025 Part-5 (Rev.1, RA 2012)

REMARKS / OBSERVATIONS:

For MITCON Consultancy & Engineering Services Ltd.

Checked By


(Mrs. Kadambari Deshmukh)

Authorized Signatory
(Dr. Sandeep Jadhav)
Senior Vice President

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