

CENTRAL LABORATORY MEGHALAYA STATE POLLUTION CONTROL BOARD

WATER QUALITY TEST REPORT



Report No: WQ/2018/81

1. Issue Date

2. Name of the Project

3. Sample matrix

4. Date of sample collection

5. Samples collected by

6. Date of sample receipt

7. Date of sample analysis

8. Sample Registration No.

9. Sample plan reference

10. Report sent to (Name & Address)

11. Deviation, if any

12. Method of sampling

13. Remarks

12.3.2018

Drinking water source (MCCL, Sohra)

Water

14.2.2018

MSPCB, Shillong

15.2.2018

15th - 28th Feb 2018

G/68/18/1

- General Manager, MCCL Office, Shillong.

IS-3025-Part I

Parameters	Test method Method: APHA	Limits	Sample code/Sampling location
	21 ⁸ Ed. No.	Indian Standard for drinking water (IS: 10500-2012)	G/68/18/1 Tap water MCCL Canteen
рН	4500-H ⁺ B	6.5-8.5	3.8
Conductivity (µmho/cm)	2510 A	•	204.0
Turbidity (NTU)	2130 B	1.0	2.0
Chloride (mg/l)	4500-Cl 8	250.0	15.0
Total Alkalinity as CaCO ₃ (mg/l)	2320 B	200.0	2.0
Total Hardness as CaCO ₃ (mg/l)	2340 C	200.0	90.0
Nitrate-N (mg/l)	4500-NO ₃ D	45.0	0.1
tron (mg/l)	3500-Fe B	0.3	0.26
Total Coliform(MPN per 100ml)	9221 B	Shall not be detectable	4

*Not Prescribed

Statement:

- 1. The results are reported based on the materials received
- 2. Sample will be destroyed after one month from the date of issue of the report.
- 3. The report shall not be reproduced except in full without the written approval of the laboratory

Scientist C

No. MPCB/CL-TRT /2015-2016/016

Issue No. 01

Issue Date : 21.06.2016

Revision No: 0

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CENTRAL LABORATORY MEGHALAYA STATE POLLUTION CONTROL BOARD

WATER QUALITY TEST REPORT



Report No: WQ/2018/82

1. Issue Date

2. Name of the Project

3. Sample matrix

4. Date of sample collection

5. Samples collected by

6. Date of sample receipt

7. Date of sample analysis

8. Sample Registration No.

9. Sample plan reference

10. Report sent to (Name & Address)

11. Deviation, if any

12. Method of sampling

13. Remarks

12.3.2018

: Water Quality (Streams near MCCI Sohra)

Water

100000

: 14.2.2018

: MSPCB, Shillong

: 15.2.2018

: 16th - 28th Feb 2018

: G/68/18/2-3

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-General Manager, MCCL Office, Shillong.

IS-3025-Part I

Parameters	Test method Method: APHA 21 st	Sampling Code/Location		
	Ed. No.	G/68/18/2 Ngam U Lah stream (Upstream)	G/68/18/3 Mawmluh stream	
рН	4500-H*B	7.2	7.5	
Conductivity (µmho/cm)	2510 A	95.0	175.0	
Turbidity (NTU)	2130 B	1.5	2.5	
Total Suspended Solids (mg/l)	2540D	5.0	6.0	
Total Dissolved Solids (mg/l)	2540C	135.0	121.0	
Chloride (mg/l)	4500-Cl B	14.0	14.0	
Total Hardness (mg/l)	2340 C	34.0	80.0	
Alkalinity (mg/l)	2320 B	32.0	66.0	
Nitrate-N (mg/I)	4500-NO ₃ D	0.12	0.14	
Nitrite-N (mg/l)	4500NO2-B	BDL*	BDL*	
Flouride	4500-F-D	0.05	0.06	
tron (mg/l)	3500-Fe 8	0.31	0.4	
Dissolved Oxygen (mg/l)	4500-0 C	7.8	7.9	



CENTRAL LABORATORY MEGHALAYA STATE POLLUTION CONTROL BOARD

WATER QUALITY TEST REPORT



Report No: WQ/2018/83

1. Issue Date

2. Name of the Project

3. Sample matrix

4. Date of sample collection

5. Samples collected by

Date of sample receipt

7. Date of sample analysis

8. Sample Registration No.

9. Sample plan reference

10. Report sent to (Name & Address)

11. Deviation, if any

12. Method of sampling

13. Remarks

12.3.2018

Effluent quality (MCCL, Sohra)

Water

14.2.2018

MSPCB, Shillong

15.2.2018

16th - 28th Feb 2018

G/68/18/4

- General Manager, MCCL Office, Shillong.

15-3025-Part 1

Parameters Test method Sampling Limit Method: APHA 2111 Code/Sampling Ed. No location G/68/18/4 General Standards discharge of environmental ETP pollutants into inland surface water as per EPA Notification vide GSR 801(E) EPA, 1986 Dated, December 31, 1993 4500-H B 5.5-9.0 7.3 pH 2540 D 100.0 **Total Suspended Solids** 26.0 10.0 5520 B Oil & Grease (mg/l) BDL* IS-3025 30.0 1.3 Biochemical Oxygen (P-44) Demand (mg/l)

Statement:

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Scientist C

Issue Date : 21.06.2016

Revision No: 00 | Page 01 of 01

No. MPCB/CL-TRT /2015-2016/016

Issue No. 01

^{*}Below Detectable limits

Calcium as CaCO ₃ (mg/l)	3500-CaB	22.0	60.0
Magnesium as CaCO ₃ (mg/l)	3500-MgB	12.0	20.0
Potassium (mg/l)	3500-KB	3.0	3.2
Sodium (mg/l)	3500-NaB	7.6	7.8
Ammonia Nitrogen (mg/l)	4500-NH3A&C	0.15	0.13
Phosphates (mg/l)	4500-P D	0.01	0.04
Sulphates (mg/l)	4500-SO4-2E	23.0	14.7

Statement:

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- The report shall not be reproduced except in full, without the written approval of the laboratory.

₩ani Scientist C

Sr. scientist



CENTRAL LABORATORY

MEGHALAYA STATE POLLUTION CONTROL BOARD



AMBIENT AIR QUALITY TEST REPORT

No. MPCB/CL-TRT/AIR/2015-16/016

Issue No.: 01

Issue Date :28.04.16

Report No.: AQ/2018/032

1.	Name of the Project	:	Ambient Air Quality monitoring at MCCL (Mines) Sohra.			
2.	Sample matrix	100	Ambient Air	Ambient Air		
3.	Samples collected by		MN Warbah/S. 1	Nongkynrih		
4.	Date of sample collection	:	13.02.18		AVIII.	
5.	Date & time of sample receipt	:	15.02.18			
6.	Date of sample analysis		15.02.18			
7.	Date of Issue					
8.	Sample Registration No.	:	A/32 /18			
9.	Test method reference	:	IS 5182 Pt. 23, IS 5182 Pt. 2, and IS 5182 Pt. 6.			
10.	Name & Address of Industry/Sampling Location	:	MCCL (Mines), Sohra.			
12.	Time duration of sampling	:	24 hrs (8 hrs interval for rspm , 4 hrs interval for gaseous)			
13.	Category	:	Residential			
14.	Meteorological Parameters					
	General Weather condition	:	Clear			
	Temperature (°C)	1	Min: 9.3	Max: 22.3		
	Relative Humidity (%)	1	Min: 54.2	Max: 86.3		
	Wind Speed (km/hr)	:	Min: 0.9	Max: 2.5	Avg: -	
	Wind Direction (most prevailing)	1	NE-SW			
	Rainfall (mm)		Sum: Nil			

		Permissible Limits (24 hours average)	Sampling Station Code/Name
		EPA Notification GSR 826(E), dated New Delhi, the 16 th Nov. 2009.	A/32/18
Parameters	Test Method		Near Canteen
Particulate Matter (PM 10) (μg/m³) (24 hrs avg.)	IS:5182 (Pt-23)	100	78.1
Sulphur dioxide (μg/m³) (24 hrs avg.)	IS:5182 (Pt-2)	80	2.0
Nitrogen dioxide (μg/m³) (24 hrs avg.)	IS:5182 (Pt-6)	80	10.9

Remarks: Parameters tested were found to be within the prescribed limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated New Delhi, the 16th Nov. 2009.

Test values are reported based on the materials received.

2. Sample(s) will be destroyed after 15 days from date of issues of the Test Report.

3. The test report shall not be reproduced except in full, without the written approval of laboratory.

Scientist 'C'

Senior Scientist



CENTRAL LABORATORY MEGHALAYA STATE POLLUTION CONTROL BOARD



AMBIENT AIR QUALITY TEST REPORT

No. MPCB/CL-TRT/AIR/2015-16/016

Issue No.: 01

Issue Date :28.04.16

Report No.: AQ/2018/034

1.	Name of the Project	:	Ambient Air Quality monitoring at MCCL (Mines), Sohra.				
2.	Sample matrix	:	Ambient Air	Ambient Air			
3.	Samples collected by	1	MN Warbah/S. I	Nongkynrih			
4.	Date of sample collection	1	13.02.18				
5.	Date & time of sample receipt	1	15.02.18				
6.	Date of sample analysis	:	15.02.18		NI SI SE		
7.	Date of Issue	:					
8.	Sample Registration No.	:	A/34/18				
9.	Test method reference	:	The second secon	IS 5182 Pt. 23, IS 5182 Pt. 2, and IS 5182 Pt. 6.			
10.	Name & Address of Industry/Sampling Location	:	MCCL (Mines), Sohra.				
12.	Time duration of sampling	:	24 hrs (8 hrs interval for rspm , 4 hrs interval for gaseous)				
13.	Category	:	Residential				
14.	Meteorological Parameters						
	General Weather condition	*	Clear				
	Temperature (°C)	:	Min: 8.6	Max: 22.5			
	Relative Humidity (%)		Min: 57.3	Max: 70.2			
	Wind Speed (km/hr)	:	Min: 0.8	Max: 2.6	Avg: -		
	Wind Direction (most prevailing)	:	NE-SW		= = = = = = = = = = = = = = = = = = = =		
	Rainfall (mm)	:	Sum: Nil				

		Permissible Limits (24 hours average)	Sampling Station Code/Name
	est respective v	EPA Notification	A/34/18
Parameters	Test Method	GSR 826(E), dated New Delhi, the 16 th Nov. 2009.	Quarry AL-3
Particulate Matter (PM 10) (μg/m³) (24 hrs avg.)	IS:5182 (Pt-23)	100	88.1
Sulphur dioxide (μg/m³) (24 hrs avg.)	IS:5182 (Pt-2)	80	2.0
Nitrogen dioxide (µg/m³) (24 hrs avg.)	IS:5182 (Pt-6)	80	4.5

Remarks: Parameters tested were found to be within the prescribed limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated New Delhi, the 16th Nov. 2009.

- 1. Test values are reported based on the materials received.
- 2. Sample(s) will be destroyed after 15 days from date of issues of the Test Report.
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CENTRAL LABORATORY

MEGHALAYA STATE POLLUTION CONTROL BOARD

NOISE LEVEL TESTING REPORT



No. MPCB/ CL-31/TRT/2015-16/016

Issue No.: 01

Issue Date :28.04.16

Report No.: NL/2018/033

1.	Name of the Project	:	Noise Level Monitoring at MCCL (Mines), Sohra.
2.	Sample matrix	:	Noise level
3.	Monitored by	1	L. Shylla
4.	Date of monitoring	:	13.02.18
5.	Date of sample receipt	:	15.02.18
6.	Date of sample analysis	:	15.02.18
7.	Date of Issue		
8.	Sample Registration No.	1	N/33/18
9.	Test method reference	:	IS-9989/981-RA 2001/MPCB/CL-SOP/2017-18/21
10.	Name & Address of Industry/Sampling Location	:	MCCL (Mines), Sohra.
11.	Category of Area		Industrial

Parameters	Limits in {dB(A	\)Leq}	Test method	Sampling Station Code/Name N/33/18	
	Pollution(Regu and Contr Rules,2000.) EPA, 198	ol) Under		Quarry AL-3	
Ambient	Day Time (6 AM to 10 PM)	75	IS-9989/981-RA 2001/MPCB/CL-	58.9	
Noise Level {dB(A)Leq}	Night Time (10 PM to 6 70 AM) The Noise level recorded (SOP/2017- 18/21	51.9	
{dB(A)Leq} Observations					

Remarks: Noise level monitored at the location was found to be within the prescribed limits as per the Noise Pollution(Regulation and Control) Rules, 2000 under EPA, 1986.

Test values are reported based on the information provided to the laboratory.

The test report shall not be reproduced except in full, without the written approval of laboratory.

No. MPCB/ CL-31/TRT/2015-16/016

Issue No : 01

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MEGHALAYA STATE POLLUTION CONTROL BOARD



AMBIENT AIR QUALITY TEST REPORT

No. MPCB/CL-TRT/AIR/2015-16/016

Issue No.: 01

Issue Date :28.04.16

Report No.: AQ/2018/033

1.	Name of the Project	:	Ambient Air Quality monitoring at MCCL (Mines) Sohra.			
2.	Sample matrix	:	Ambient Air			
3.	Samples collected by	1	MN Warbah/S. I	Nongkynrih		
4.	Date of sample collection	1	13.02.18			
5.	Date & time of sample receipt	1:	15.02.18			
6.	Date of sample analysis	1	15.02.18		- 74	
7.	Date of Issue					
8.	Sample Registration No.	1	A/ 33/18			
9.	Test method reference	1:	IS 5182 Pt. 23, IS 5182 Pt. 2, and IS 5182 Pt. 6.			
10.	Name & Address of Industry/Sampling Location	1	MCCL (Mines), Sohra.			
12.	Time duration of sampling	:	24 hrs (8 hrs interval for rspm , 4 hrs interval for gaseous)			
13.	Category	1:	Residential			
14.	Meteorological Parameters	-				
	General Weather condition	1:	Clear			
	Temperature (°C)	1	Min: 4.7	Max: 21.1	CALL CO.	
	Relative Humidity (%)	:	Min: 57.1	Max: 76.6		
	Wind Speed (km/hr)	:	Min: 0.9	Max: 2.4 Ave	g: -	
	Wind Direction (most prevailing)		NE-SW			
	Rainfall (mm)	:	Sum; Nil			

		Permissible Limits (24 hours average)	Sampling Station Code/Name	
		EPA Notification	A/33/18 Near Weighbridge	
Parameters	Test Method	GSR 826(E), dated New Delhi, the 16 th Nov. 2009.		
Particulate Matter (PM 10) (μg/m³) (24 hrs avg.)	IS:5182 (Pt-23)	100	83.5	
Sulphur dioxide (μg/m³) (24 hrs avg.)	IS:5182 (Pt-2)	80	2.0	
Nitrogen dioxide (μg/m³) (24 hrs avg.)	IS:5182 (Pt-6)	80	4.5	

Remarks: Parameters tested were found to be within the prescribed limits of Ambient Air Quality Standards as per EPA Notification GSR 826(E), dated New Delhi, the 16th Nov. 2009.

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No. MPCB/CL-TRT/AIR/2015-16/016 Issue I

Issue No.: 01

Issue Date :28.04.16

Revision No.: 0

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