

Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/053

Location of Sampling : SCL, Lumshnong

Date of Sampling : 02.01.2021 – 03.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 24.0 °C
 Minimum : 10.0 °C

Relative Humidity (%)

Maximum : 95.2 %
Minimum : 51.1 %
Wind Direction : NE - SW
Wind Speed (km/hr.) : 27.9

	Air	National Ambient Air			
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/202/20-21	(Near Pump House) C/203/20-21	(Near Security Gate No. 3) C/204/20-21	(Staff Quarters- 4) C/205/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	54.2	58.4	56.1	54.1	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	26.1	32.1	33.5	32.0	60
Sulphur Dioxide SO <sub>2</sub> (μg/m <sup>3</sup> )	6.4	7.1	6.4	5.7	80
Nitrogen Dioxide $NO_2$ ( $\mu g/m^3$ )	9.5	9.4	9.8	10.2	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18<sup>th</sup> November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/054

Location of Sampling : SCL, Lumshnong

Date of Sampling : 04.01.2021 – 05.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum
 25.2 °C
 Minimum
 8.1 °C

Relative Humidity (%)

Maximum
Minimum
Wind Direction
Wind Speed (km/hr.)
: 95.4 %
: 42.2 %
: NE - SW
: 27.9

	Air	National Ambient Air			
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/206/20-21	(Near Pump House) C/207/20-21	(Near Security Gate No. 3) C/208/20-21	(Staff Quarters- 4) C/209/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	53.8	56.1	51.7	49.4	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	33.1	38.9	34.2	31.8	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	6.2	6.4	5.7	5.3	80
Nitrogen Dioxide $NO_2$ ( $\mu g/m^3$ )	9.2	11.5	9.4	9.8	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18<sup>th</sup> November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/055

Location of Sampling : SCL, Lumshnong

Date of Sampling : 11.01.2021 – 12.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 22.3 °C
 Minimum : 13.0 °C

Relative Humidity (%)

Maximum : 95.6 %
 Minimum : 61.5 %
 Wind Direction : E - W
 Wind Speed (km/hr.) : 6.6

	Air Quality Monitoring Analysis Result				National Ambient Air
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/210/20-21	(Near Pump House) C/211/20-21	(Near Security Gate No. 3) C/212/20-21	(Staff Quarters- 4) C/213/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	56.2	53.5	56.9	55.3	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	35.1	33.2	32.8	30.6	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	6.4	7.1	7.2	5.1	80
Nitrogen Dioxide NO <sub>2</sub> (μg/m³)	9.2	10.9	9.6	9.6	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

#### Ref: SCL/Env/AAQM/Monthly/2020-21/056

Location of Sampling : SCL, Lumshnong

Date of Sampling : 12.01.2021 – 13.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 22.1 °C
 Minimum : 12.0 °C

Relative Humidity (%)

Maximum : 95.6 %
 Minimum : 61.2 %
 Wind Direction : E - W
 Wind Speed (km/hr.) : 5.7

	Air	National Ambient Air			
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/214/20-21	(Near Pump House) C/215/20-21	(Near Security Gate No. 3) C/216/20-21	(Staff Quarters- 4) C/217/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	54.0	63.4	60.1	56.2	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	34.2	42.1	39.9	35.1	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	6.9	6.8	7.4	7.1	80
Nitrogen Dioxide $NO_2$ ( $\mu g/m^3$ )	9.4	10.3	10.1	8.3	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/057

Location of Sampling : SCL, Lumshnong

Date of Sampling : 16.01.2021 – 17.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 20.3 °C
 Minimum : 9.2 °C

Relative Humidity (%)

Maximum : 95.2 %
 Minimum : 59.5 %
 Wind Direction : E - W
 Wind Speed (km/hr.) : 4.9

	Air	National Ambient Air Quality			
Pollutants	1	2	3	4	Standards Permissible
	(Near Star Club) C/218/20-21	(Near Pump House) C/219/20-21	(Near Security Gate No. 3) C/220/20-21	(Staff Quarters- 4) C/221/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	52.1	51.7	56.1	49.9	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	29.1	38.8	38.1	29.2	60
Sulphur Dioxide SO <sub>2</sub> (μg/m³)	5.9	6.3	7.2	6.2	80
Nitrogen Dioxide NO <sub>2</sub> (μg/m³)	9.1	9.2	10.7	9.9	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/058

Location of Sampling : SCL, Lumshnong

Date of Sampling : 18.01.2021 – 19.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 24.4 °C
 Minimum : 10.1 °C

Relative Humidity (%)

Maximum : 95.2 %
 Minimum : 43.1 %
 Wind Direction : E - W
 Wind Speed (km/hr.) : 6.5

	Air	National Ambient Air			
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/222/20-21	(Near Pump House) C/223/20-21	(Near Security Gate No. 3) C/224/20-21	(Staff Quarters- 4) C/225/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	57.2	52.8	57.4	43.3	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	36.3	37.1	37.2	32.1	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	5.6	6.7	7.4	6.1	80
Nitrogen Dioxide NO <sub>2</sub> (μg/m <sup>3</sup> )	9.5	11.8	12.4	9.3	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No. SCL/EHS/Env/F-01
Date of Issued 24/08/2013
Revision No. 05
Revision Date 01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/059

Location of Sampling : SCL, Lumshnong

Date of Sampling : 29.01.2021 – 30.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum
 Minimum
 24.5 °C
 9.2 °C

Relative Humidity (%)

Maximum
Minimum
Wind Direction
Wind Speed (km/hr.)
: 95.5 %
: 36.0 %
: NE - SW
: 9.9

	Air	National Ambient Air			
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/226/20-21	(Near Pump House) C/227/20-21	(Near Security Gate No. 3) C/228/20-21	(Staff Quarters- 4) C/229/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	52.2	48.8	53.1	53.2	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m <sup>3</sup>	38.4	29.5	32.3	32.0	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	5.9	5.4	6.3	7.9	80
Nitrogen Dioxide NO <sub>2</sub> (μg/m³)	10.1	9.3	11.2	9.1	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



Lumshnong, Meghalaya

AMBIENT AIR QUALITY MONITORING REPORT

Document No.	SCL/EHS/Env/F-01
Date of Issued	24/08/2013
Revision No.	05
<b>Revision Date</b>	01/01/2021

Ref: SCL/Env/AAQM/Monthly/2020-21/060

Location of Sampling : SCL, Lumshnong

Date of Sampling : 30.01.2021 – 31.01.2021

Distance between the Industry and sampling Location : NA
Time duration of sampling : 24 hrs.
Weather : Dry

Total Rain Fall (mm) : No Rain Fall

Ambient Temperature (°C)

Maximum : 20.6 °C
 Minimum : 10.2 °C

Relative Humidity (%)

Maximum
Minimum
Wind Direction
Wind Speed (km/hr.)
: 95.3 %
: 59.2 %
: NE - SW
: 5.4

	Air Quality Monitoring Analysis Result				National Ambient Air
		Quality Standards			
Pollutants	1	2	3	4	Permissible
	(Near Star Club) C/230/20-21	(Near Pump House) C/231/20-21	(Near Security Gate No. 3) C/232/20-21	(Staff Quarters- 4) C/233/20-21	Limits for Rural , Ind., Residential Area
Suspended Particulate Matter (Size less than 10 μm) or PM10 μg/m <sup>3</sup>	55.3	56.7	55.5	54.3	100
Suspended Particulate Matter (Size less than 2.5 µm) or PM2.5 µg/m³	31.5	32.9	34.9	34.0	60
Sulphur Dioxide $SO_2$ ( $\mu g/m^3$ )	5.8	6.8	7.0	6.3	80
Nitrogen Dioxide $NO_2$ ( $\mu g/m^3$ )	9.4	9.7	12.9	9.2	80

**Remarks:** The parameters analyzed were found to be within the permissible limits of Ambient Air Quality Standards (National) for Rural Areas as per National Ambient Air Quality Standards, Notification dated 18th November 2009.

Analyzed By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 02/01/2021

**Type of Stack** : Primary Crusher (Bag Filter)

**Laboratory Report No.** : S/85/20-21

**Parameters**:

1) Particulate Matter (PM) :18.3 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 02/01/2021

**Type of Stack** : Secondary Crusher (Bag Filter)

**Laboratory Report No.** : S/86/20-21

**Parameters**:

1) Particulate Matter (PM) : 22.5 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Morrow / Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev	01 06 2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 04/01/2021

**Type of Stack** : RABH

**Laboratory Report No.** : S/87/20-21

**Parameters**:

1) Particulate Matter (PM) :17.1 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Mono/ Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 04/01/2021

**Type of Stack** : Cooler ESP

**Laboratory Report No.** : S/88/20-21

**Parameters**:

1) Particulate Matter (PM) :23.8 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

More Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 05/01/2021

**Type of Stack** : Coal Mill

**Laboratory Report No.** : S/89/20-21

**Parameters**:

1) Particulate Matter (PM) : 20.2 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Morrow / Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 05/01/2021

**Type of Stack** : Cement Mill (Bag Filter)

**Laboratory Report No.** : S/90/20-21

**Parameters**:

1) Particulate Matter (PM) :16.1 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

More Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 06/01/2021

**Type of Stack** : Packing Plant (Bag Filter)

**Laboratory Report No.** : S/91/20-21

Parameters:

1) Particulate Matter (PM) :19.3 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated  $9^{th}$  May, 2016 and G.S.R. 497(E) dated  $10^{th}$  May, 2016.

Analyzed By

Checked By



#### **Lumshnong, Meghalaya STACK ANALYSIS REPORT**

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev	01 06 2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 06/01/2021

**Type of Stack** : Roller Press Mill (581 Bag Filter-1)

**Laboratory Report No.** : S/92/20-21

**Parameters**:

1) Particulate Matter (PM) : 13.9 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 26/01/2021

**Type of Stack** : Cooler ESP

**Laboratory Report No.** : S/93/20-21

**Parameters**:

1) Particulate Matter (PM) :26.1 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 26/01/2021

**Type of Stack**: Roller Press Mill (581 Bag Filter-1)

**Laboratory Report No.** : S/94/20-21

**Parameters**:

1) Particulate Matter (PM) : 14.5 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated  $9^{th}$  May, 2016 and G.S.R. 497(E) dated  $10^{th}$  May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 27/01/2021

**Type of Stack** : Secondary Crusher (Bag Filter)

**Laboratory Report No.** : S/95/20-21

**Parameters**:

1) Particulate Matter (PM) :21.4 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 27/01/2021

**Type of Stack** : Coal Mill

**Laboratory Report No.** : S/96/20-21

**Parameters**:

1) Particulate Matter (PM) :19.9 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 28/01/2021

**Type of Stack**: Primary Crusher (Bag Filter)

**Laboratory Report No.** : S/97/20-21

**Parameters**:

1) Particulate Matter (PM) : 17.8 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 28/01/2021

**Type of Stack** : Packing Plant (Bag Filter)

**Laboratory Report No.** : S/98/20-21

**Parameters**:

1) Particulate Matter (PM) : 18.7 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 29/01/2021

**Type of Stack** : RABH

**Laboratory Report No.** : S/99/20-21

**Parameters**:

1) Particulate Matter (PM) : 16.7 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated 9<sup>th</sup> May, 2016 and G.S.R. 497(E) dated 10<sup>th</sup> May, 2016.

Analyzed By

Checked By



#### Lumshnong, Meghalaya STACK ANALYSIS REPORT

Reference No.	SCL/EHS/F - 02
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	04
Date of Rev.	01.06.2019

Name of Sampling Location : SCL, Lumshnong

**Date of Sampling** : 29/01/2021

**Type of Stack** : Cement Mill (Bag Filter)

**Laboratory Report No.** : S/100/20-21

**Parameters**:

1) Particulate Matter (PM) : 13.4 mg/Nm<sup>3</sup>

**Remarks**: The parameter tested was found to be within the permissible limits of Stack Emission Standards as per EPA Notification G.S.R. 496(E) dated  $9^{th}$  May, 2016 and G.S.R. 497(E) dated  $10^{th}$  May, 2016.

Analyzed By

Checked By



## Lumshnong, Meghalaya FUGITIVE EMISSION MONITORING REPORT

Document No.	SCL/EHS/Env/F-04		
Date of Issued	01/05/2019		
Revision No.	02		
<b>Revision Date</b>	01/01/2021		

Ref: SCL/Env/Fugitive/Monthly/2020-21/007

Month: January - 2021

Date	te Location Fugitive Emission Results (in μg/m³)		Limit (in µg/m³)
09.01.2021	Coal Storage Section	1124	2000
09.01.2021	Limestone Storage Section	1920	5000
09.01.2021	Cement Packing Plant	2054	5000

Analyzed By



Document No. MPL/EHS/Env/F-03
Effective Date 01-05-2019
Revision No. 04

01-01-2021

Lumshnong, Meghalaya
NOISE LEVEL MONITORING REPORT

Ref: SCL(LM)/Env/Noise/Monthly/2020-21/009

Month: 06.01.2021

**Revision Date** 

S. No.	Location	Measured Values dB(A) Day time (6:00am to 10:00pm)			Norms	Measured Values dB(A) Night time (10:00pm to 6:00am)			Norms
		Min.	Max.	Avg.	In dB(A)	Min.	Max.	Avg.	in dB(A)
A	Plant								
1	Kiln	65.3	69.4	67.4		63.2	65.1	64.4	
2	Raw Mill	67.8	71.3	69.6		63.4	65.7	64.1	
3	Raw Mill WF	65.1	70.1	67.6		60.3	66.9	61.6	
4	Coal Mill	62.5	66.2	64.4		58.1	61.2	62.0	
5	Cement Mill	63.8	68.7	66.3	75	63.2	65.3	63.8	70
6	Cement Mill WF	60.9	68.3	64.6	Ī	60.8	65.7	63.6	
7	Primary Crusher (Dump Hopper)	64.7	67.8	66.3	Ī	61.9	66.1	64.1	
8	Primary Crusher (Near BC-1)	63.3	68.5	65.9		63.7	64.8	64.4	
9	Secondary Crusher	67.8	69.7	68.8	Ī	63.8	65.2	64.5	
B.	DG House								
1	Control Room	59.3	58.3	58.8	7.5	56.8	54.8	55.8	70
2	Office	50.2	55.2	52.7	75	47.9	53.4	50.7	70
C.	Offices					•		•	
1	CCR	53.1	63.7	58.4		51.6	56.8	54.2	
2	Meeting Room	52.7	57.1	54.9	Ī	49.1	54.1	51.6	
3	VP'S Room	51.3	57.9	54.6		46.6	51.6	49.1	
4	Inst. Shift Room	54.8	61.2	58.0	Ī	51.8	55.9	53.9	
5	Drawing Office	52.9	59.4	56.2	75	45.0	56.8	50.9	70
6	QC Department				/3				7 /0
	a) Chemical Lab	64.1	66.7	65.4	]	53.7	62.4	58.1	
	b) Physical Lab	62.8	65.8	64.3	Ī	56.9	63.5	60.2	
	c) Shift Lab	59.2	62.8	61.0	Ī	54.6	59.1	56.9	
	d) Sample Preparation Room	61.7	64.8	63.3	Ī	56.8	58.3	57.6	
D.	Residential							•	•
1	Bachelor Hostel	43.0	46.8	44.9		41.3	44.2	42.8	
2	HOD'S Quater's	44.5	49.5	47.0		41.8	45.7	43.8	
3	650 Quater's	43.1	47.3	45.2	55	40.1	46.3	43.2	45
4	250 Quater's	41.8	47.6	44.7	55	38.9	43.8	41.4	45
5	Hut	40.4	43.5	42.0	Ī	39.5	41.5	40.5	Ì
E.	Dispensery	41.5	48.2	44.9	Ī	40.1	42.8	41.5	Ī

Measured By:

Math



Lumshnong, Meghalaya

#### WATER TESTING REPORT

Reference No.	SCL/EHS/F - 04
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	03
Date of Rev.	01.06.2019

Report No. - 09

**Date of Sample Collection:** 19.01.2021

**Analysis Date:** 19.01.2021 to 22.01.2021

SI. No	Parameter	Unit	Drinking Water (RO Plant)	Indian Standard Specification for Drinking Water IS: 10500-2012 Acceptable Limit (Max.)	Indian Standard Specification for Drinking Water IS: 10500-2012 Permissible Limit (Max.)
1	рН	Hazen	6.8	6.5 to 8.5	No relaxation
2	Colour	mg/lit	Colourless	5	15
3	Odour	mg/lit	Agreeable	Agreeable	Agreeable
4	Total Hardness as CaCO3	mg/lit	64.4	200	600
5	Calcium as Ca	mg/lit	15.2	75	200
6	Magnesium as Mg	mg/lit	6.4	30	100
7	<b>Total Dissolve Solids</b>	mg/lit	144	500	2000
8	Chloride	mg/lit	11.4	250	1000
9	<b>Total Residual Chlorine</b>	mg/lit	BDL	0.2	1
10	Turbidity	NTU	0.08	1	5
11	Iron	mg/lit	BDL	0.3	No Relaxation
12	Dissolved Oxygen	mg/lit	4.2	-	-

Analysis By

Checked By



Lumshnong, Meghalaya WATER TESTING REPORT

Reference No.	SCL/EHS/F - 04
Issue No.	01
Date of Issue:	24.08.2013
Revision No.	03
Date of Rev.	01.06.2019

Report No. – 09

Date of Sample Collection: 19.01.2021

Analysis Date: 19.01.2021 – 22.01.2021

S.N o.	Parameter	Unit	Plant Nala Inlet	Plant Nala Out Let	STP Inlet Water	STP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date:- 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014-2015/34 – dated Shillong,the 3rd SEP, 2014.	Indian Standard Specification for Drinking Water IS: 10500 -2012 Acceptable Limit (Max.)	Indian Standard Specification for Drinking Water IS: 10500 -2012 Permissible Limit (Max.)
1	рН		6.5	6.4	6.4	6.1	5.5 to 9.0	6.5 to 8.5	No relaxation
2	Colour	Hazen	Colourless	Colourless	Colourless	Colourless	Colourless	5	15
3	Odour		Odourless	Odourless	Odourless	Odourless	Odourless	Agreeable	Agreeable
4	Total Residual Chlorine	mg/lit	NIL	NIL	NIL	NIL	1	0.2	1
5	Chloride	mg/lit	3.5	4.8	90.1	82.3	250	250	1000
6	Total Hardness as CaCO3	mg/lit	161.8	163.5	154.6	145.2	-	200	600
7	Calcium as Ca	mg/lit	25.3	28.1	95.4	17.8	-	75	200
8	Magnesium as Mg	mg/lit	14.6	15.8	11.3	9.7	-	30	100
9	Suspended Solids	mg/lit	38.4	42.9	61.2	15.0	100	-	-
10	Total Dissolve Solids	mg/lit	96.5	352.2	591.8	435.7	-	500	2000
11	Cemical Oxegan Demand	mg/lit	27.1	28.1	357.2	64.8	250	-	-
12	Biochemical Oxegan Demand ( For 3 days at 27deg. C)	mg/lit	NIL	<2	156	16.3	30	-	-
13	Oil & Grease	mg/lit	NIL	<3	3.1	<3	10	-	-
15	Temperature	deg. C	21.8	24.7	25.1	26.4	Shall not be exceed 50 Deg. C the	-	-
16	Ammonical Nitrogen (as N)	mg/lit	-	-	-	-	50	-	-
17	Total kjeldahl Nitrogen (asN)	mg/lit	-	-	-	-	100	-	-
18	Free Ammonia (asNH3)	mg/lit	-	-	-	-	5	-	-
19	Conductivity		165	156	362	191	-	-	-

Analysis By

Checked By

verified by



Lumshnong, Meghalaya

# Issue No. 01 Date of Issue: 24.08.2013 Revision No. 03 Date of Rev. 01.06.2019

Reference No.

SCL/EHS/F - 04

#### WATER TESTING REPORT

Report No. - 09

Date of Sample Collection: 19.01.2021
Analysis Date: 19.01.2021 to 22.01.2021

S. No.	Parameter	Unit	ETP Outlet	Standard Norms For Discharge of Environment Pollution (Notification Date:- 19th May 1993) & Consent To Operate vide letter no. MPCB/TB-900 (Pt-II)/2014-2015/34 – dated Shillong,the 3rd SEP, 2014.
1	рН	-	7.3	5.5 to 9.0
2	Suspended Solids	mg/lit	25.9	100
3	Total Dissolve Solids	mg/lit	352.4	-
4	Cemical Oxegan Demand	mg/lit	54.1	250
5	Biochemical Oxegan Demand ( For 3 days at 27deg. C)	mg/lit	19.7	30
6	Oil& Grease	mg/lit	<3	10
7	Dissolved Oxygen	mg/lit	6.2	-

Analysis By

Checked By