

STAR CEMENT LIMITED

Regd. Office & Works: Lumshnong, PO-Khaliehriat, Distt. – East Jaintia Hills, Meghalaya-793210

Ph: 03655-278215/16/18, Fax: 03655-278217, e-mail: lumshnong@starcement.co.in

Ref: SCL/EHS/LUM/2021-22/27

Dated: 20/10/2021

To,

The Member Secretary
Meghalaya State Pollution Control Board
'ARDEN', Lumpyngad,
Shillong - 793014

Subject: Monthly Environmental Monitoring Report.

Ref. No.: MPCB/CON-900-Pt-IV/2020-2021/76, Dated. Shillong, the 26th March, 2021.

Dear Sir,

Please find enclosed herewith the monthly report of Ambient Air Quality monitoring including meteorological data, Stack Emission, Fugitive Emission, Noise Level monitoring, Water monitoring reports (Drinking, STP) of **Star Cement Limited** for the month of **September, 2021** for your kind perusal.

Thanking you,

Yours faithfully
For **Star Cement Limited**



Authorized Signatory

Enclosed: As mentioned above

STARCEMENT
Solid Setting

Regd. Office & Works : Lumshnong, P.O. - Khaliehriat, Dist- East Jaintia Hills, Meghalaya - 793 210, Ph: 03655-278215/16/18, Fax: 03655-278217, e-mail: lumshnong@starcement.co.in
Works : Gopinath Bordoloi Road, Village - Chamatapathar, Distract - Kamrup (M), Guwahati - 782 402, Assam, e-mail: ggu@starcement.co.in
Guwahati Office : Mayur Garden, 2nd Floor, Opp. Rajiv Bhawan, G.S. Road, Guwahati - 781 005, Assam, Ph: 0361-2462215/16, Fax: 0361 - 2462217, e-mail : guwahati@starcement.co.in
Delhi Office : 281, Deepali, Pitampura, Delhi-110 034, Ph: 011 - 2703 3821/22/27, Fax: 011 - 2703 3824, e-mail: delhi@starcement.co.in
Kolkata Office : 3, Alipore Road, Satiyam Tower, 1st Floor, Unit No. 9B, Kolkata - 700 027, Ph: 033-2448 4169/4170, Fax: 033 - 2448 4168, e-mail : kolkata@starcement.co.in
Durgapur Office : C/o - Ma Chandi Durga Cements Ltd., Bamunara Industrial Area, P.O. - Bamunara, P.S. - Kanksha, Dist. Burdwan, West Bengal - 713 212
Siliguri Office : Village - Kartowa, P.O. - Mohanvita, District - Jalpaiguri, West Bengal - 735 135 / Top Plaza, 3rd Floor, Near City Plaza, Sevoke Road, Siliguri - 734 001, Ph: 0353 - 2643611/12

Bankura Office : Purandar Pur, District - Bankura, West Bengal - 722 155
AN ISO 9001, ISO 14001 & OHSAS 18001 CERTIFIED COMPANY
CIN NO. U26942ML2001PLC006663


	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01	
			Issue No.	1	
			Date of Issue:	24.08.2013	
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5	
			Date of Rev.	01.12.2020	
Reference No.: SCL/ENV/AAQM/MONTHLY/2021-22/23			Month: Sep'21		
Location of Sampling: Near Star Club			GPS Coordinate: 25°10'36"N 92°23'16"E 928 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
01-09-21	45.23	29.96	9.86	15.87	
09-09-21	46.78	30.99	10.12	16.29	
16-09-21	41.22	27.30	8.68	13.97	
21-09-21	42.89	28.41	11.51	18.53	
27-09-21	41.32	27.37	10.06	16.20	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01	
			Issue No.	1	
			Date of Issue:	24.08.2013	
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5	
			Date of Rev.	01.12.2020	
Reference No.: SCL/ENV/AAQM/MONTHLY/2021-22/24			Month: Sep'21		
Location of Sampling: Near Pump House			GPS Coordinate: 25°10'42"N 92°23'32"E 919 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
01-09-21	53.89	35.44	14.26	17.89	
09-09-21	54.32	35.73	15.02	18.01	
16-09-21	51.32	33.75	12.56	17.65	
21-09-21	53.21	35.00	11.21	15.65	
27-09-21	55.16	36.28	13.87	16.78	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.	SCL/Env/F – 01
			Issue No.	1
			Date of Issue:	24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.	5
			Date of Rev.	01.12.2020
Reference No.: SCL/ENV/AAQM/MONTHLY/2021-22/25			Month: Sep'21	
Location of Sampling: Near Security Gate - 3		GPS Coordinate: 25°10'27"N 92°23'37"E 944 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
01-09-21	55.65	35.11	23.65	29.56
09-09-21	53.45	32.54	20.32	25.40
16-09-21	55.62	36.15	21.23	26.54
21-09-21	51.65	31.02	22.42	28.03
27-09-21	55.64	34.56	22.65	28.31
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya		Reference No.		SCL/Env/F – 01
			Issue No.		1
			Date of Issue:		24.08.2013
	AMBIENT AIR QUALITY MONITORING REPORT		Revision No.		5
			Date of Rev.		01.12.2020
Reference No.: Tongseng Village V/2021-22/002			Month: Sep'21		
Location of Sampling: Tongseng Village			GPS Coordinate: 25°10'08"N 92°24'17"E 756 m		
Sampling Duration:	24 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	
Date of Sampling	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)	
09.09.2021	45.23	28.95	6.54	9.58	
NAAQS permissible limits for Rural, Industrial, Residential Area	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	

Remarks: All the analyzed parameters are well within the permissible limits of NAAQ Standards , Notification dated 18th November 2009.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : S/46/2021-22
 Date of Sampling : 01.09.2021
 Monitoring location : Cement Mill
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Cement Mill
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	30
2 Diameter of the duct at sampling point (in Meter)	1.2
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	1.13
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	25° C
2 Stack Gas Temp (°C)	56
3 Velocity of Gas (m/sec.)	10.71
4 Flow Rate (Nm ³ /Sec)	0.22
5 Quantity of of Emission (Nm ³ / Hr)	39467.75
6 Concentration of Particulate Matter (mg/Nm ³)	16.08
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Pulse Jet Polyester Bag Filter
F Remark	


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : S/47/2021-22
 Date of Sampling : 01.09.2021
 Monitoring location : Packing Plant
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Packing Plant
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	28
2 Diameter of the duct at sampling point (in Meter)	1.1
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	0.95
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	25° C
2 Stack Gas Temp (°C)	46
3 Velocity of Gas (m/sec.)	10.36
4 Flow Rate (Nm ³ / sec.)	0.25
5 Quantity of of gas flow (Nm ³ / Hr)	33107.17
6 Concentration of Particulate Matter (mg/Nm ³)	11.63
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Pulse Jet Polyester Bag Filter
F Remark	


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : S/48/2021-22
 Date of Sampling : 04.09.2021
 Monitoring location : Roller Press
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Roller Press
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	24
2 Diameter of the duct at sampling point (in Meter)	1.4
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	1.54
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	25.0° C
2 Stack Gas Temp (°C)	39
3 Velocity of Gas (m/sec.)	11.75
4 Flow Rate (Nm ³ / sec.)	0.30
5 Quantity of of gas flow (Nm ³ / Hr)	62158.54
6 Concentration of Particulate Matter (mg/Nm ³)	15.83
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Pulse Jet Polyester Bag Filter
F Remark	


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		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : -
 Date of Sampling : -
 Monitoring location : Limestone Crusher (Primary Crusher)
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	LimeStone Crusher (Primary Crusher)
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	21
2 Diameter of the duct at sampling point (in Meter)	1.2
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	1.13
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	-
2 Stack Gas Temp (°C)	-
3 Velocity of Gas (m/sec.)	-
4 Flow Rate (Nm ³ / sec.)	-
5 Quantity of of gas flow (Nm ³ / Hr)	-
6 Concentration of Particulate Matter (mg/Nm ³)	-
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Pulse Jet Polyester Polymer Polyethylene Bag Filter
F Remark	Monitoring of Limestone Crusher (Primary Crusher) has not carried out due to shut down.


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		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : -
 Date of Sampling : -
 Monitoring location : Limestone Crusher (Secondary Crusher)
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Limestone Crusher (Secondary Crusher)
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	17
2 Diameter of the duct at sampling point (in Meter)	1.0
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	0.79
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	-
2 Stack Gas Temp (°C)	-
3 Velocity of Gas (m/sec.)	-
4 Flow Rate (Nm ³ / sec.)	-
5 Quantity of of gas flow (Nm ³ / Hr)	-
6 Concentration of Particulate Matter (mg/Nm ³)	-
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Pulse Jet Polyester Polymer Polyethylene Bag Filter
F Remark	Monitoring of Limestone Crusher (Secondary Crusher) has not carried out due to shut down.


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : -
 Date of Sampling : -
 Monitoring location : RABH
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Kiln/Raw Mill
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	45.4
2 Diameter of the duct at sampling point (in Meter)	3
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	7.07
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	-
2 Stack Gas Temp (°C)	-
3 Velocity of Gas (m/sec.)	-
4 Flow Rate (Nm ³ / sec.)	-
5 Quantity of of gas flow (Nm ³ / Hr)	-
6 Concentration of Particulate Matter (mg/Nm ³)	-
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Reverse Air Bag House (RABH). 10 compartments and 132 bags per compartment 132
F Remark Monitoring of lime RABH mill has not carried out due to shut down.	


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : -
 Date of Sampling : -
 Monitoring location : Coal Mill
 Sample Description : Flue gas monitoring


Analysis Results

A General Information about Stack	
1 Stack connected to	Coal Mill
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	37
2 Diameter of the duct at sampling point (in Meter)	1.2
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	1.13
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	-
2 Stack Gas Temp (°C)	-
3 Velocity of Gas (m/sec.)	-
4 Flow Rate (Nm ³ / sec.)	-
5 Quantity of of gas flow (Nm ³ / Hr)	-
6 Concentration of Particulate Matter (mg/Nm ³)	-
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Bag Filter (Main)
F Remark Monitoring of Coal Mill has not carried out due to shut down.	


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference NO.	SCL/EHS/F -02
		Issue No.	1
	STACK ANALYSIS REPORT	Date of issue	24.08.2013
		Revision No.	4
		Date of Rev.	01.06.2019

Reference No. : -
 Date of Sampling : -
 Monitoring location : Cooler ESP
 Sample Description : Flue gas monitoring

Analysis Results

A General Information about Stack	
1 Stack connected to	Cooler ESP
2 Material of Construction (Stack/Duct)	MS
3 Shape of Duct	Circular
4 Whether duct is provided with permanent platform & ladder	Yes
B Physical characteristic of stack	
1 Height of the stack from ground level (in Meter)	30.4
2 Diameter of the duct at sampling point (in Meter)	2.8
3 Height of the sampling point from ground level (in Meter)	-
4 Area of duct (in m ²)	6.15
C Result of Sampling & Analysis of Gaseous Emission	
1 Ambient Temp (°C)	-
2 Stack Gas Temp (°C)	-
3 Velocity of Gas (m/sec.)	-
4 Flow Rate (Nm ³ /Sec)	-
5 Quantity of of Emission (Nm ³ / Hr)	-
6 Concentration of Particulate Matter (mg/Nm ³)	-
7 Concentration of Sulphur di-oxide (mg/Nm ³)	-
8 Concentration of Oxide of Nitrogen (mg/Nm ³)	-
D Pollution Control Device	
1 Details of pollution control device attached to stack	Electrostatic Precipitator (4 compartments)
F Remark Monitoring of Cooler ESP has not carried out due to shut down.	


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Document No.	SCL/EHS/Env/F-04
		Date of Issued	01-05-19
		Revision No.	2
	FUGITIVE EMISSION MONITORING REPORT	Revision Date	01-01-21

Ref: SCL/Env/Fugitive/Monthly/2021-22/006


Month - Sep'21

Date	Location	Fugitive Emission Results	Limit
		(in $\mu\text{g}/\text{m}^3$)	(in $\mu\text{g}/\text{m}^3$)
16.09.2021	Coal Storage Section	1410	2000
16.09.2021	Limestone Storage Section	1623	5000
16.09.2021	Cement Packing Plant	1740	5000


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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F-04
		Issue No.	1
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 06

Date of sample collection: - 11.09.2021

Date of Analysis: 11.09.2021 to 14.09.2021

Sr.No.	Parameter	Unit	STP Inlet	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	pH	-	7.96	-
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	56.00	-
5	Total Hardness as CaCO ₃	mg/L	156.93	-
6	Suspended Solids	mg/L	78	-
7	Total Dissolve Solids	mg/L	259	-
8	Chemical Oxygen Demand	mg/L	275	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	140.0	-
10	Oil & Grease	mg/L	7.7	-
11	Temperature	° C	26.7	-
12	Conductivity	μS/cm	422	-




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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F-04
		Issue No.	1
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 06

Date of sample collection: - 11.09.2021

Date of Analysis: 11.09.2021 to 14.09.2021

Sr.No.	Parameter	Unit	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
1	pH	-	7.96	5.5 to 9.0
2	Colour	Hazen	Colourless	-
3	Odour	-	Odourless	-
4	Chloride	mg/L	56.00	-
5	Total Hardness as CaCO ₃	mg/L	156.93	-
6	Suspended Solids	mg/L	8	100
7	Total Dissolve Solids	mg/L	259	-
8	Chemical Oxygen Demand	mg/L	38.0	250
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	9.0	30
10	Oil & Grease	mg/L	< 3.0	10
11	Temperature	° C	26.9	Shall not exceed 5.0°C above the receiving water temperature
12	Conductivity	μS/cm	422	-



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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F-04
		Issue No.	1
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 01

Date of sample collection: - 08.09.2021

Date of Analysis: 08.09.2021 to 11.09.2021

Sr.No.	Parameter	Unit	ETP Inlet	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	pH	-	7.85	-
2	Suspended Solids	mg/L	83	-
3	Total Dissolve Solids	mg/L	737	-
4	Chemical Oxygen Demand	mg/L	176.0	-
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	65.4	-
6	Oil & Grease	mg/L	123.9	-
7	Dissolved Oxygen	mg/L	2.6	-
8	Temperature	° C	26.4	-

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	STAR CEMENT LIMITED Lumshnong, Meghalaya	Reference No.	SCL/EHS/F-04
		Issue No.	1
	WATER TESTING REPORT	Date of Issue:	24.08.2013
		Revision No.	3
		Date of Rev.	01.06.2019

Report No. - 06				Date of sample collection: - 08.09.2021 Date of Analysis: 08.09.2021 to 11.09.2021
Sr.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	pH	-	7.9	5.5 to 9.0
2	Suspended Solids	mg/L	15	100
3	Total Dissolve Solids	mg/L	743	-
4	Chemical Oxygen Demand	mg/L	28.0	250
5	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	4.0	30
6	Oil & Grease	mg/L	2.1	10
7	Dissolved Oxygen	mg/L	6.5	-
8	Temperature	° C	26.8	Shall not exceed 5.0°C above the receiving water temperature




Analysis By



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	STAR CEMENT LIMITED		Reference No.	SCL/EHS/F-04
			Issue No.	1
	Lumshnong, Meghalaya		Date of Issue:	24.08.2013
	WATER TESTING REPORT		Revision No.	3
			Date of Rev.	01.06.2019

Report No. -06

Date of sample collection: - 11.09.2021

Date of Analysis: - 11.09.2021 to 14.09.2021

Sr.No.	Parameter	Unit	Nala Inlet	Nala Outlet	Standards norms as per IS 2296
1	pH	-	7.96	7.73	6.5 - 8.5
2	Colour	Hazen	Colourless	Colourless	300
3	Odour	-	Unobjectionable	Unobjectionable	Unobjectionable
4	Chloride	mg/L	4.80	5.05	-
5	Total Hardness as CaCO ₃	mg/L	147.32	148.21	300
6	Suspended Solids	mg/L	12	13	-
7	Total Dissolve Solids	mg/L	216	218	500
8	Chemical Oxygen Demand	mg/L	ND	ND	-
9	Biochemical Oxygen Demand (For 3 days at 27 °C)	mg/L	ND	ND	2.0
10	Oil & Grease	mg/L	ND	ND	-
11	Temperature	° C	25.1	25.2	-
12	Conductivity	μS/cm	330	331	-


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