

Website: www.tajcement.com CIN: U26942ML2003PLC007295

Date: .28.63.20.23

HCCL/MSPCB/22-23/09

To,
The Member Secretary,
Meghalaya State Pollution Control Board
ARDEN Lumpyngngad
Shillong (Meghalaya) -793014

Subject: Reports on Ambient Air Quality test, Stack Emission test, Fugitive Emission, Waste Water Analysis (STP & ETP) & Noise Level Measurement Test for the month of December 2022

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **December 2022** for the following test results:

Sl No.	Test Results	Purpose
1	Ambient Air Quality	-
2	Stack Emission	R.A.B.H
3	Stack Emission	Coal Mill
4	Stack Emission	Cooler E.S.P
5	Waste Water Analysis Result	ETP & STP Water Analysis
6	Noise Level Measurement Test	
7	Fugitive Emission Test	

Thanking you,

For Hills Cement Company Ltd

Authorised Signatory
Authorised Signatory

Copy To: - (1) The Joint Director (S), Ministry of Environment, Forest & Climate Change NE Regional Office, Lumbatngen, Shillong 793021 for information

(2) The Regional Director Regional Directorate (NE), Central Pollution Control Board, TUM-SIR, Lower Motinagar, Near Fire Brigrade HQ, Shillong-793014



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E-mail: envirocon@rediffmail.com

Report No.: ENV/HCCL/22-23/AA-12/01 Order No.: HCCL/HO/ENV/21-22/01

Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)
	LIMIT(S) →		60	100	80	80
01	In-front of Guest House	27.12.2022	24.7	43.2	<5.0	<6.0
02	Near Crusher Area	27.12.2022	31.2	51.6	5.8	6.9
03	In- Front of Compressor House (Cement Mill)	28.12.2022	29.5	49.2	6.7	7.3
04	Near Mines	28.12.2022	26.3	46.5	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

GL V		Date	Day '	Гіте	Night Time		
Sl. No.	Location(s)	Of Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)	
1	In-front of Guest House	27.12.2022	51.6	75	44.8	70	
2	Near Crusher Area	27.12.2022	70.3	75	66.3	70	
3	In- Front of Compressor House (Cement Mill)	28.12.2022	69.8	75	64.7	70	
4	Near Mines	28.12.2022	50.2	75	39.2	70	



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Report No.: ENV/HCCL/22-23/SE-12/01 Order No.: HCCL/HO/ENV/21-22/01

Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	Н	CCL/22-23/SE-12/0)1	
02	Date of Sampling		27.12.2022		
03	Material of Construction		M. S.		
04	Stack Attached To		R.A.B.H.		
05	Stack Diameter (Meter)	3.0			
06	Flue Gas Temperature (°C)	178			
07	Exit Velocity of Gas (m/sec)	15.3			
08	Flow Rate (Nm³/hr)	257290			
09	Type of Fuel Used	NA*			
	Analysis Resul	lts of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	21 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	585 mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	356 mg/Nm³ 800			

^{*}NA: Not Applicable



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Report No.: ENV/HCCL/22-23/SE-12/02 Order No.: HCCL/HO/ENV/21-22/01

Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/22-23/SE-12/02			
02	Date of Sampling		27.12.2022		
03	Material of Construction		M. S.		
04	Stack Attached To		Coal Mill		
05	Stack Diameter (Meter)		1.2		
06	Flue Gas Temperature (°C)	55			
07	Exit Velocity of Gas (m/sec)	11.6			
08	Flow Rate (Nm³/hr)	42915			
09	Type of Fuel Used	Coal			
	Analysis Resul	lts of Flue Gas			
Sl. No.	Parameter(s)	Result(s) Unit(s) Limit(s)			
i.	Particulate Matter	23 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	388 mg/Nm³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	216	mg/Nm³	800	



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Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

STACK EMISSION TEST RESULTS

01	Test Ref. No.	Н	CCL/22-23/SE-12/0)3	
02	Date of Sampling	28.12.2022			
03	Material of Construction		M. S.		
04	Stack Attached To		Cooler E.S.P.		
05	Stack Diameter (Meter)		2.8		
06	Flue Gas Temperature (°C)	217			
07	Exit Velocity of Gas (m/sec)	6.2			
08	Flow Rate (Nm³/hr)	83594			
09	Type of Fuel Used	NA*			
	Analysis Resul	ts of Flue Gas			
Sl. No.	Parameter(s)	Result(s) Unit(s) Limit(s)			
i.	Particulate Matter	27 mg/Nm ³ 30			
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCCL/22-23/WW-12/01 Order No.: HCCL/HO/ENV/21-22/01

Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/22-23/WW-2912/01

Sample Type/Source : Waste Water (Treated)/STP Outlet

Sample Collected By : Representative of ENVIROCON

Sample Collected On : 29.12.2022 Sample Received On : 31.12.2022 Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	рН		6.94	5.5 – 9.0
2.	Temperature	οС	23.4	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	31	100
4.	Biochemical Oxygen Demand	mg/l	22	30
5.	Chemical Oxygen Demand	mg/l	98	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	3.9	50
9.	Total Kjeldahl Nitrogen (as NH3)	mg/l	12.4	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

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Report No.: ENV/HCCL/22-23/FE-09/01

Date : 09/01/2023

Report Issued To:

Order No.: HCCL/HO/ENV/21-22/01 Date : 08/04/2021

HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM $(\mu g/m^3)$	Limits (μg/m³)
27.12.2022	Coal Storage Section	478	2000
27.12.2022	Lime Stone Storage Section	1852	5000
28.12.2022	Fly-ash Storage Section	2203	5000
28.12.2022	Cement Packing Section	2964	5000



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Report No.: ENV/HCCL/22-23/WW-12/01

: 09/01/2023

Date

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Order No.: HCCL/HO/ENV/21-22/01

Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

STP WATER ANALYSIS RESULTS

Sample Ref. No.: HCCL/2022/STP-2812/01 Sample Source: STP Outlet (SCL) Sample Type: STP Treated Water

Collected On : 28-12-2022 Received On : 30-12-2022 Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	рН	6.81	6.5 - 9.0
2	Total Suspended Solids (as TSS), mg/l	28	<100
3	Biochemical Oxygen Demand (as BOD), mg/l	12	30
4	Chemical Oxygen Demand (as COD), mg/l	46	250*
5	Oil & Grease, mg/l	<4.0	10.0*
6	Fecal Coliform (as FC), MPN/100 ml	856	<1000

^{*}Limit as per G.S.R. 801(E), 31.12.1993

Analysis Protocol: IS 3025 MPN: Most Probable Number



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Report No.: ENV/HCCL/21-22/WW-12/02 Order No.: HCCL/HO/ENV/21-22/01

Date : 09/01/2023 Date : 08/04/2021

Report Issued To: HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/22-23/WW-2812/01
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON

Sample Collected On : 28.12.2022
Sample Received On : 30.12.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per G.S.R. 801(E), 31.12.1993)
1.	рН		6.94	5.5 - 9.0
2.	Temperature	°C	23.4	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	31	100
4.	Biochemical Oxygen Demand	mg/l	22	30
5.	Chemical Oxygen Demand	mg/l	98	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	< 0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	3.9	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.4	100
10.	Free Ammonia (as NH ₃)	mg/l	< 0.01	5.0



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