



HCCL/MSPCB/24-25/004

Date: 13.07.2024

To,

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

Subject: Monthly monitoring reports of Ambient Air Quality, Stack Emission, Waste Water Analysis (STP) & Noise Level Measurement for the month of **June**, **2024**.

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **June**, **2024** for the following test results:

Sr. No.	. No. Environmental Parame		Frequency	
1	Ambient Air	PM-10, PM-2.5, SO2 & NO2	Monthly	
2	Stack	PM, SO2 & NO2	Monthly	
3	Fugitive Emission	SPM	Monthly	
4	Noise	Leq in dB(A) Day & Night	Monthly	
5	Waste water	As per CTO 10 parameters	Monthly	
6	Surface water	25 Parameters	Monthly	

Thanking you,

For Hills Cement Company Ltd

Deepan Pardo Authorised Signatory

CPCB Rebuck
Received No ortrary
Date

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.

HILLS CEMENT COMPANY LIMITED

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati, Assam, PIN-781009 | Ph.: (0361) 4083974 | E. In Onton Complex REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200



ISO 9001:2015 Certified ISO 45001:2018 Certified

E-mail: envirocon@rediffmail.com

Report No.: ENV/HCCL/24-25/AA-06/01 Order No.: HCCL/W0/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

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)	NO₂ (μg/m³)
	LIMIT(S) →		60	100	80	80
01	Near Cement Mill	25.06.2024	24.3	46.4	7.1	7.6
02	Near Crusher Area	25.06.2024	25.5	47.5	6.8	7.2
03	Near View Point	24.06.2024	21.2	45.8	6.3	7.1
04	Worker Colony	24.06.2024	17.4	37.6	<5.0	<6.0
05	Mynkree Village	24.06.2024	16.6	36.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- 2. Results refer only to the particular parameters tested.
- 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi 786171, Assam.



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Report No.: ENV/HCCL/24-25/N-06/01 Order No.: HCCL/WO/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

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

CL N-	Location(c)	Date Of	Day Time		Night Time	
Sl. No.	Location(s)	Measurement	L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	25.06.2024	67.9	75	65.9	70
2	Near Crusher Area	25.06.2024	68.5	75	66.3	70
3	Near View Point	24.06.2024	50.6	75	48.5	70
4	Worker Colony	24.06.2024	49.9	75	45.1	70
5	Mynkree Village	24.06.2024	43.3	70	38.4	55



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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

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Report No.: ENV/HCCL/24-25/SE-06/02 Order No.: HCCL/WO/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

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/2024/SE-06/02			
02	Date of Sampling	24.06.2024			
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)	172			
07	Exit Velocity of Gas (m/sec)	14.6			
08	Flow Rate (Nm³/hr)	248829			
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	21 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	583 mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	309	mg/Nm³	800	

^{*}NA: Not Applicable



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Report No.: ENV/HCCL/24-25/SE-06/01 Order No.: HCCL/W0/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

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/2024/SE-06/01			
02	Date of Sampling	24.06.2024			
03	Material of Construction		M. S.		
04	Stack Attached To		Coal Mill		
05	Stack Diameter (Meter)		1.2		
06	Flue Gas Temperature (°C)	73			
07	Exit Velocity of Gas (m/sec)	18.9			
08	Flow Rate (Nm³/hr)	66285			
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	19 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	330 mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	162	mg/Nm³	800	



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Report No.: ENV/HCCL/24-25/SE-06/03 Order No.: HCCL/WO/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

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/2024/SE-06/03			
02	Date of Sampling	25.06.2024			
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)	250			
07	Exit Velocity of Gas (m/sec)	11.9			
08	Flow Rate (Nm³/hr)	150323			
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	23 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm³	800	

*NA: Not Applicable

#BDL: Below Detectable Limit



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Order No.: HCCL/WO/24-25/04/24

Report No.: ENV/HCCL/24-25/SE-06/04

Date : 05/07/2024 Date : 23/04/2024

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/2024/SE-06/04			
02	Date of Sampling	25.06.2024			
03	Material of Construction		M. S.		
04	Stack Attached To		Cement Mill		
05	Stack Diameter (Meter)	1.2			
06	Flue Gas Temperature (°C)	77			
07	Exit Velocity of Gas (m/sec)	8.5			
08	Flow Rate (Nm³/hr)	29470			
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	18 mg/Nm³ 30			
ii.	Sulphur Dioxide (as SO ₂)	BDL# mg/Nm ³ 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/24-25/WW-06/01 Order No.: HCCL/WO/24-25/04/24

Date : 23/04/2024 Date : 05/07/2024

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

: HCCL/2024/WW-2506/01 Sample Ref. No.

: Waste Water (Treated)/STP Outlet Sample Type/Source : Representative of ENVIROCON Sample Collected By

Sample Collected On : 25.06.2024 Sample Received On : 28.06.2024 Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pН		6.77	5.5 – 9.0
2.	Temperature	οС	23.9	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	39	100
4.	Biochemical Oxygen Demand	mg/l	24	30
5.	Chemical Oxygen Demand	mg/l	93	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	5.2	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.6	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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Report No.: ENV/HCCL/24-25/FE-06/01 Order No.: HCCL/WO/24-25/04/24

Date : 05/07/2024 Date : 23/04/2024

Report Issued To: 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 (µg/m³)	Limits (μg/m³)
24.06.2024	Coal Storage Section	473	2000
24.06.2024	Lime Stone Storage Section	1524	5000
25.06.2024	Fly-ash Storage Section	1941	5000
25.06.2024	Cement Packing Section	2114	5000



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Report No.: ENV/HCCL/24-25/SW-06/01

Date : 05/07/2024

Order No.: 4700029887 Date : 26/03/2024

Report Issued To: M/S. MEGHALAYA CEMENTS LIMITED

Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: HCCL/2024/SW-2506/01 Sample Source: Drain Upstream Sample Type: Surface Water

Collected On : 25-06-2024 Received On : 28-06-2024 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	13	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	23.9		
4.	pH Value	6.64	6.5 - 8.5	No Relaxation
5.	Suspended Solids	41		
6.	Total Dissolved Solids, mg/l, Max.	136	500	2000
7.	Conductivity, µS/cm	191		
8.	Dissolved Oxygen, mg/l, Min.	6.5		
9.	Biochemical Oxygen Demand, mg/l, Max.	<1		
10.	Chemical Oxygen Demand, mg/l, Max.	28		
11.	Oil and Grease, mg/l, Max.	<4.0		
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	17	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	< 0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	< 0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	1.6		
19.	Total Kjeldahl Nitrogen (as NH3), mg/l, Max.	5.5		
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01		

^{*}Limits as per IS 10500:2012 Analysis Protocol: IS 3025



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Report No.: ENV/MCL/24-25/SW-06/02

Date : 05/07/2024

Order No.: 4700029887 Date : 26/03/2024

Report Issued To: M/S. MEGHALAYA CEMENTS LIMITED

Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: HCCL/2024/SW-2506/02 Sample Source: Drain Downstream Sample Type: Surface Water

Collected On : 25-06-2024 Received On : 28-06-2024 Collected By : Envirocon Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	15	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	23.9		
4.	pH Value	6.60	6.5 - 8.5	No Relaxation
5.	Suspended Solids	67		
6.	Total Dissolved Solids, mg/l, Max.	166	500	2000
7.	Conductivity, µS/cm	197		
8.	Dissolved Oxygen, mg/l, Min.	6.8		
9.	Biochemical Oxygen Demand, mg/l, Max.	<1		
10.	Chemical Oxygen Demand, mg/l, Max.	38		
11.	Oil and Grease, mg/l, Max.	<4.0		
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO ₃), mg/l, Max.	8.8	200	600
14.	Calcium (as Ca), mg/l, Max.	22	75	200
15.	Magnesium (as Mg), mg/l, Max.	5	30	100
16.	Iron (as Fe), mg/l, Max.	<0.001	0.3	No Relaxation
17.	Total Chromium, (as Cr), mg/l, Max	<0.001	0.05	No Relaxation
18.	Ammonical Nitrogen (as N), mg/l, Max.	2.5		
19.	Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max.	6.8		
20.	Free Ammonia (as NH ₃), mg/l, Max.	<0.01		

^{*}Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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