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Report No.: ENV/HCCL/AAQ/APR/19-20/01

Date : 04/05/2019

W.O.No. : Nil

Date : 11/03/2019

M/s 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)	NO ₂ (μg/m³)	SO₂ (μg/m³)	
	Limit(s)		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)	
1.	In-front of Guest House	18.04.2019	18.4	41.7	BDL	BDL	
2.	Near Crusher Area	18.04.2019	31.4	64.2	5.6	BDL	
3.	In- Front of Compressor House (Cement Mill)	19.04.2019	24.6	58.7	7.8	BDL	
4.	Near ETP	19.04.2019	21.7	52.6	4.8	BDL	

Analysis Protocol: IS 5182

BDL: Below Detectable Level



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M/s HILLS CEMENT COMPANY LIMITED

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

Meghalaya

STACK EMISSION TEST RESULTS

i.	PM- Particulate Matter	18.6	mg/Nm³	30		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
10	Analysis Results of Flue Gas					
09	Type of Fuel Used		NA*			
08	Flow Rate (Nm³/hr)		11,517			
07	Exit Velocity of Gas (m/sec)		4.1			
06	Flue Gas Temperature (°C)		27			
05	Stack Diameter (Meter)		1.0			
04	Stack Attached To		B. F. of Crusher			
03	Material of Construction		M. S.			
02	Date of Sampling		18.04.2019			
01	Stack Emission Test Ref. No.	НС	HCCL/SE/19-20/04-01			

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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M/s HILLS CEMENT COMPANY LIMITED

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

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	НС	HCCL/SE/19-20/04-02			
02	Date of Sampling		18.04.2019			
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)		13.2			
08	Flow Rate (Nm³/hr)		2,21,975			
09	Type of Fuel Used		NA*			
10	Analysis Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter (as PM)	23.4	mg/Nm³	30		
ii.	Sulphur Dioxide (as SO ₂)	765.87	765.87 mg/Nm ³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	475.04	mg/Nm³	800		

^{*}NA: Not Applicable



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Meghalaya

Date

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	НСС	HCCL/SE/19-20/04-03			
02	Date of Sampling		18.04.2019			
03	Material of Construction		M. S.			
04	Stack Attached To		Coal Mill			
05	Stack Diameter (Meter)		1.2			
06	Flue Gas Temperature (°C)		54			
07	Exit Velocity of Gas (m/sec)		9.1			
08	Flow Rate (Nm³/hr)		33,769			
09	Type of Fuel Used		Coal			
10	Analysis	s Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	PM- Particulate Matter	28.2	mg/Nm³	30		
ii.	Sulphur Dioxide (as SO ₂)	841.05	mg/Nm³	1000		
iii.	Oxides of Nitrogen (as NO _x)	504.42	mg/Nm³	800		



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<u>Meghalaya</u>

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	НС	HCCL/SE/19-20/04-04			
02	Date of Sampling		18.04.2019			
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)		212			
07	Exit Velocity of Gas (m/sec)		12.6			
08	Flow Rate (Nm ³ /hr)		1,71,637			
09	Type of Fuel Used		NA*			
10	Analysis Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	PM- Particulate Matter	22.6	mg/Nm³	30		

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Meghalaya

STACK EMISSION TEST RESULTS

Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
10	Analysis Results of Flue Gas					
09	Type of Fuel Used		NA*			
08	Flow Rate (Nm ³ /hr)	***************************************	38,127			
07	Exit Velocity of Gas (m/sec)		10.4			
06	Flue Gas Temperature (°C)		58			
05	Stack Diameter (Meter)		1.2			
04	Stack Attached To		Cement Mill			
03	Material of Construction		M. S.			
02	Date of Sampling		19.04.2019			
01	Stack Emission Test Ref. No.	НС	HCCL/SE/19-20/04-05			

*NA: Not Applicable



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Meghalaya

STACK EMISSION TEST RESULTS

Sl. No.	Parameter(s)	Result(s)	Unit(s) mg/Nm³	Limit(s		
10	Analysis Results of Flue Gas					
09	Type of Fuel Used		NA*			
08	Flow Rate (Nm ³ /hr)		17,144			
07	Exit Velocity of Gas (m/sec)		9.6			
06	Flue Gas Temperature (°C)		29			
05	Stack Diameter (Meter)		8.0			
04	Stack Attached To		Packing House			
03	Material of Construction		M. S.			
02	Date of Sampling		19.04.2019			
01	Stack Emission Test Ref. No.	нс	HCCL/SE/19-20/04-06			

*NA: Not Applicable



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

Meghalaya

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WASTE WATER ANALYSIS RESULTS

Sample Type : Treated ETP Water

Sample Source : ETP Outlet

Collected By: Jointly by Envirocon & Client

Collected On: 19.04.2019

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limits (IS: 2490)
01	рН		6.8	5.5 - 9.0
02	Temperature	°C	27.1	shall not exceed 5°C above the receiving water temperature
03	Total Suspended Solids	mg/l	12.4	100
04	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	19	30
05	Chemical Oxygen Demand	mg/i	61	250
06	Oil & Grease	mg/l	<0.1	10
07	Total Residual Chlorine	mg/l	<0.01	1.0
08	Ammonical Nitrogen (as N)	mg/l	12.6	50
09	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	29.6	100
10	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025



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