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CIN: U26942ML2003PLC007295

o/c

Ref: HCCL/MSPCB/CTO/24-25/001

Date: 28.11.2024

To,

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

Subject: Submission of Six Monthly Compliance Report of Consent to operate conditions of Hills Cement Company Limited at Village-Mynkree, Dist.-East Jaintia Hills, Meghalaya- 793200.

Reference: CTO Letter No. MPC B/CON-120/2009/2023-2024/182 dat.23.08.2023

Dear Sir,

With reference to the stipulation of Consent to operate, please find the attached compliance report for the period of 1st April 2024 to 31th September 2024 for Hills Cement Company Limited, Mynkree. The compliance report will be up loaded in our company website <http://www.tajcement.com/> within 15 days.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

For Hills Cement Company Limited

Deepan Panda
Authorised Signatory



Enclosed: Six Monthly CTO Compliance Report & Annexure.

Copy To: The Joint Director (S), Ministry of Environment, Forest & Climate Change, North Eastern Regional office, Law-U-Sib, Lumbatngen, Shillong (Meghalaya) -793014.



HILLS CEMENT COMPANY LIMITED

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

HILLS CEMENT COMPANY LTD.

Vill: Mynkree, Sub. Div.: Khliehriat, Dist: Jaintia Hills, Meghalaya


Consent to Operate Compliance Status Report


Period of Compliance: April'2024 to September'2024


CTO Letter No.: MPC B/CON-120/2009/2023-2024/182 dat.23.08.2023

Sl. No.	Condition	Compliance Status
GENERAL CONDITIONS		
01	This Consent has been accorded based on the particulars furnished by the applicant on behalf of M/s HILLS CEMENT COMPANY LIMITED and subject to addition of further or more conditions if so warranted by subsequent developments. The Consent will automatically become invalid if any change or alteration or deviation is made in actual practice.	Noted and Agreed for compliance.
02	This Consent may be modified, suspended or revoked by the Board in whole or in part during its term for cause including, but not limited to the following:- a) Violation of any Terms and Conditions of this Consent; b) Obtaining the Consent by misrepresentation or failure to disclose fully all relevant facts; c) A change in any condition that require temporary or permanent reduction or elimination of the authorized discharge/emission.	Noted and Agreed for compliance.
03	This Consent does not convey any property right in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central State or Local Laws or Regulation.	Noted and Agreed for compliance.

04	No air, water and soil pollution shall be created by the Industry beyond the prescribed permissible limits.	<p><u>The stipulation is complied with ;</u> Reverse Air Bag House & High efficiency Electrostatic Precipitators (ESPs) are installed at raw mill and cooler section in the plant to control particulate emission less than 30 mg/Nm³ as per revised MoEF & CC Notification G.S.R 612(E) dated 25.08.2014 & G.S.R. 496(E) dated 09.05.2016. Bag filters have been provided at different plant sections as necessary. Bag filter for Control of fugitive dust emission from storage areas and transfer points has also been provided. The industry is carrying out dust suppression by sprinkling water to control air emissions at non-point sources and transfer points within the prescribed permissible limits. The monitoring data of the above mentioned AAQMS are within the permissible limit. Ambient air quality, Stack emissions, Fugitive emission monitoring conducted by third party (M/s Envirocon) on monthly basis and same test reports is being submitted to MoEF&CC on monthly Basis. Third Party Ambient Air Quality, Stack, Fugitive Emission & STP monitoring reports and photo graphs of ambient air monitoring locations attached as Annexure – 1, 1(I), 1(II) & 1 (III) 2.</p>
05	Suitable measures shall be taken by the industry, to maintain the ambient noise level within the plant premises to within a maximum of 75 dB(A) Leq during the day, i.e. 6:00 AM to 10:00 PM, and 70 db(A) Leq during the night i.e. 10:00 PM to 6:00 PM. The areas outside the plant premises and in all adjoining villages shall be maintained within 55 dB(A) Leq during the day i.e. 6:00 AM to 10:00 PM, and 45 db(A) Leq during the night i.e. 10:00 PM to 6:00 PM. Noise monitoring is to be conducted weekly and submit the Reports to the Board on monthly basis.	<p>Condition complied, The ambient noise level is maintaining well within the prescribed standards. In house noise level monitoring is being carried out on regular basis and the monitoring report is attached as Annexure-4. Third Party Monitoring Report is being carried out on monthly basis & the monitoring report is attached as Annexure-3. The Noise level monitoring report is being submitted to MSPCB on monthly basis.</p>
06	To maintain the environment and ecology of the area, development of green belt by planting selected species of trees, the height of which should not be less than 5 (five) metres when matured and at a spacing of 1 (One) metre should be made invariably at an area of 15 ha around the cement Plant and 2.0 ha around the colony.	<p>Condition complied, Green belt is being developed gradually by planting suitable species of plants around the plant as well as the residential colony.</p>

07	As per the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended and the Air (Prevention and Control of Pollution) Act, 1981 as amended that any Officer empowered by the Board on its behalf shall have without interruption, the right at any time to enter the Plant/factory/for inspection, collection of sample for analysis and may call for any information as deemed necessary. Denial this right will cause withdrawal of the Consent Order.	Noted and Agreed for compliance, Hills Cement Company Limited., will provide all the facilities and assistance without any interruption to the officers empowered by the Board on its behalf for inspection, collection of samples for analysis, and seeking for any information.
08	The Company shall comply with all the environment protection measures and safeguards recommended in the ELA/EMP and submit the Report to the concerned Authority with copy to this Board	Condition complied, The Company is complying with all the protection measures and safeguards recommended by EIA/EMP report. Details of implemented environmental protection measures and safeguards recommended in the EIA/EMP enclosed herewith as Annexure 5 .
09	Domestic Wastewater generated from the factory' and colony shall have to be treated in a Sewage Treatment Plant. This treated water shall be utilized in greenbelt development around the plant and colony. Schedule Action Plan should be submitted within 3(three) months.	Condition complied, STP has been installed and functioning properly. Treated water is used for greenbelt development. STP Reports are already submitted in concern department. Enclosed herewith as Annexure 2 for your kind information. 
10	All recommendations of the corporate Responsibility for Environment Protection (CREP) shall have to be adhered to.	All; the recommendations made in the Charter on Corporate Responsibility, for Environment Protection (CREP) for the Cement Plants are being followed.
11	Prior Permission of the Central Ground Water Authority should be obtained for extraction of Ground Water.	Condition complied, The Company has already received the NOC from CGWA for usage of ground water NOC No CGWA/NOC/IND/ORIG/ 2021/13291 valid up to 27.01.2027. The copy of NOC is enclosed herewith as Annexure 6 .
SPECIFIC CONDITIONS		
A. AIR ASPECT		
01	The Air pollution control devices installed should be properly maintained so as to ensure control of the emission from the Cement Plant as prescribed.	Condition complied, The Air pollution control devices are being regularly maintained. Presently we are carrying out regular monitoring and the emissions are within limits.

02	<p>The chimneys/vents attached to various sources of emission shall be assigned with specific reference numbers such as S-1, S-2, etc and these shall be painted/displayed to ease identification. Sampling ports at appropriate location in the chimney/stack and adequate facilities like ladder, platform, etc. for monitoring of the stack emissions should be maintained. The frequency of monitoring of stack emission shall be every fortnightly and the monitoring Report should be submitted to the MSPCB on monthly basis.</p>	<p>Condition complied.</p> <p>All the stacks are properly marked as recommended, with suitable provisions for emission monitoring and reports submitted to MSPCB. The monthly stack monitoring report enclosed herewith as Annexure 1(I).</p> 
03	<p>On-line continuous stack monitoring facilities provided for dust and gaseous emission should be properly maintained and monitored data should be regularly transmitted to Meghalaya State Pollution Control Board and Central Pollution Control Board.</p>	<p>Condition complied,</p> <p>HCCL has already installed continuous on line monitoring equipment. The Continuous stack gaseous emissions is in working condition and 24X7 online data connectivity to CPCB & SPCB server in link to http://glenscpb.glensserver.com and data is transferring both aforesaid servers regularly. Stack OCEMS data enclosed herewith as Annexure 7.</p>
04	<p>Appropriate preventive measures should be adopted to reduce fugitive emission so as to control the concentration of suspended particulate matter in the ambient air.</p>	<p>Condition complied,</p> <p>Fugitive emissions from all sources are controlled and all are within permissible limit.</p> <ul style="list-style-type: none"> • Bag house/Bag filters were already installed in raw mill/kiln, Coal mill, Clinker Stock Pile (CSP) and every transfer points. • All approach roads within the factory premises and colony areas are made cemented & bitumen and maintained properly to avoid dust deposition. • Regular monitoring for secondary fugitive emission is being done by authorized agencies. Emission levels are under control and within limits. Fugitive Emission Test are enclosed herewith as Annexure 1(II).
05	<p>Provision should be made for maintaining of plantation along the internal roads to reduce dust retention in the air.</p>	<p>Condition complied,</p> <p>Plantation has already started and we are trying to increase the green cover with further plantation. Enclosed photograph of plantation as Annexure 8.</p>
06	<p>Monitoring of the Ambient Air Quality including micro-meteorological data in at least three ambient air quality monitoring stations established around the Plant premises should be carried out weekly for 24 hours and submit the report to the MSPCB on monthly basis.</p>	<p>Condition complied.</p> <p>The Online continues ambient air quality monitoring station along with Metrological station has been installed and ambient air quality monitoring also being carried out on monthly basis by third party M/s Envirocon. Reports regularly submitted to MSPCB office. AAQM reports enclosed as Annexure 1 & 12.</p>

07	The Ambient Air Quality within the Plant premises and surrounding areas should be maintained within the National Ambient Air Quality Standards.	Condition complied, Concentration of the specified parameters is well within the prescribed limits. AAQM reports enclosed as Annexure 1 & 9.
B	WATER ASPECT	
01	The Daily quantity of Water to be drawn shall not exceed 1500 m3/day.	Condition complied,
02	Adequate drainage system should be provided (if not already in place) all around the coal and fly ash storage sheds to collect the run-off and leachate from the sheds for treatment in the ETP.	The drainage system has been upgraded and revamped as recommended. The Garland drain has been made around the storage area/stockpiles to arrest the seepage water from coal yard. The seepage water thus collected and pass through neutralization pit. Photographs and test reports of water quality after neutralization pit enclosed herewith as Annexure-10.
03	The industry shall provide (if not already provided) a comprehensive trade effluent treatment system consisting of Primary, Secondary and or Tertiary treatment as may be warranted with reference to influent quality and an appropriate sewage treatment system as is warranted with reference to influent quality so that the quality of the treated effluent/sewage achieved the prescribed Standards.	Condition complied. Effluent treatment has been installed and working properly. The treated water quality conforms to the prescribed standards. Enclosed monthly as Annexure-2 reports.
04	Provision should be made for setting up requisite number of permanent water quality monitoring stations on the natural water courses both upstream and downstream and selection of sampling points/stations should be made in consultation with this Board. Monthly returns of water consumption for different purpose of usage should be furnished on or before the 5th of every month in prescribed Form-I.	Condition complied. The monitoring stations are being selected and finalized in consultation with the Board. Monthly water consumption Form-1 is being submitted to board on monthly basis.
05	Appropriate & approved Water meter should be affixed at the intake pipe line within the industry premises to record the water consumption by the industry for different purposes.	Condition complied, The digital water flow meter with telemetry system has been installed 
C	SOLID & HAZARDOUS WASTE ASPECT	

01	Adequate facility should be created for collection, storage, transportation, treatment & disposal of Municipal Solid Waste generated from the Residential Colony and Industry (non-hazardous industrial solid waste).	Condition complied.
02	Appropriate facility should be created and maintained for handling, storage, treatment and disposal of Hazardous waste generated from the industry in accordance to the provisions of the Hazardous and Other wastes (Management & Trans boundary Movement) Rules, 2016, including Notifications.	The Company is using high calorific hazardous waste in the cement kiln procured from various Pharmaceutical Companies located at Sikkim.
03	Facility should be created for co-processing of Hazardous and Other wastes in the Plants as per Hazardous & Other Wastes (Management & Trans boundary Movement) Rules, 2016	Condition complied.
04	AdequatAdequate facility should be provided for storage of any hazardous substance/chemicals in accordance to the provisions of the Manufacture, Import & Storage of Hazardous Chemical rules, 1989.	Condition complied.
05	Adequat Adequate system should be adopted for reduction of waste generation and enhancement of re-utilization and recycling of waste materials.	Condition complied.
06	Facility should be created for utilization of plastic waste as co-fuel in the kiln.	Condition complied.

Report No.: ENV/HCL/24-25/AA-04/01

Date : 11/05/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	30.04.2024	28.3	53.7	7.2	7.9
02	Near Crusher Area	30.04.2024	30.9	55.4	7.5	8.1
03	Near View Point	29.04.2024	24.7	49.3	6.9	7.6
04	Worker Colony	29.04.2024	19.6	44.2	<5.0	<6.0
05	Mynkree Village	29.04.2024	18.3	39.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:

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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.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/HCL/24-25/AA-05/01

Date : 08/06/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	24.05.2024	26.3	49.2	7.3	7.6
02	Near Crusher Area	24.05.2024	27.7	51.3	7.1	7.9
03	Near View Point	23.05.2024	22.6	47.6	6.5	7.2
04	Worker Colony	23.05.2024	18.7	39.4	<5.0	<6.0
05	Mynkree Village	23.05.2024	17.9	37.5	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/HCL/24-25/AA-06/01

Date : 05/07/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	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

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Report No.: ENV/HCL/24-25/AA-07/01

Date : 06/08/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	13.07.2024	26.8	51.3	7.3	7.9
02	Near Crusher Area	13.07.2024	25.7	49.7	7.1	7.5
03	Near View Point	12.07.2024	22.5	46.2	6.8	7.3
04	Worker Colony	12.07.2024	20.9	40.1	<5.0	<6.0
05	Mynkree Village	12.07.2024	17.4	39.2	<5.0	<6.0

Analysis Protocol: IS 5182

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Report No.: ENV/HCL/24-25/AA-08/01

Date : 06/09/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	24.08.2024	25.7	51.3	7.3	7.9
02	Near Crusher Area	24.08.2024	27.9	53.9	7.1	7.5
03	Near View Point	23.08.2024	23.4	47.2	6.6	7.2
04	Worker Colony	23.08.2024	19.8	43.6	<5.0	<6.0
05	Mynkree Village	23.08.2024	18.2	41.1	<5.0	<6.0

Analysis Protocol: IS 5182

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

Report No.: ENV/HCL/24-25/AA-09/01

Date : 05/10/2024

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

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 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	Near Cement Mill	21.09.2024	41.5	73.6	7.6	8.3
02	Near Crusher Area	21.09.2024	43.6	79.2	7.3	7.9
03	Near View Point	22.09.2024	39.2	59.4	6.9	7.4
04	Worker Colony	22.09.2024	34.6	53.7	<5.0	<6.0
05	Mynkree Village	22.09.2024	23.9	51.9	<5.0	<6.0

Analysis Protocol: IS 5182



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Report No.: ENV/HCL/24-25/SE-04/01

Date : 11/05/2024

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

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-04/01		
02	Date of Sampling	29.04.2024		
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)	19.4		
08	Flow Rate (Nm³/hr)	330635		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	708	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	315	mg/Nm³	800

*NA: Not Applicable



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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
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Report No.: ENV/HCCL/24-25/SE-04/02

Date : 11/05/2024

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

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-04/02		
02	Date of Sampling	29.04.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	51		
07	Exit Velocity of Gas (m/sec)	12.5		
08	Flow Rate (Nm³/hr)	46816		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	530	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	218	mg/Nm³	800



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

Report No.: ENV/HCL/24-25/SE-04/03

Date : 11/05/2024

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

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-04/03		
02	Date of Sampling	18.03.2024		
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)	231		
07	Exit Velocity of Gas (m/sec)	10.4		
08	Flow Rate (Nm³/hr)	136328		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/SE-04/04

Date : 11/05/2024

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

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-04/04		
02	Date of Sampling	30.04.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	66		
07	Exit Velocity of Gas (m/sec)	12.7		
08	Flow Rate (Nm³/hr)	45460		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/SE-05/03

Date : 08/06/2024

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

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-05/03		
02	Date of Sampling	23.05.2024		
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)	174		
07	Exit Velocity of Gas (m/sec)	13.2		
08	Flow Rate (Nm³/hr)	223962		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	591	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	326	mg/Nm³	800

*NA: Not Applicable



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Report No.: ENV/HCL/24-25/SE-05/02

Date : 08/06/2024

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

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-05/02		
02	Date of Sampling	23.05.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	75		
07	Exit Velocity of Gas (m/sec)	19.3		
08	Flow Rate (Nm³/hr)	67299		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	323	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	181	mg/Nm³	800

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Report No.: ENV/HCL/24-25/SE-05/01

Date : 08/06/2024

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

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-05/01		
02	Date of Sampling	23.05.2024		
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)	252		
07	Exit Velocity of Gas (m/sec)	12.1		
08	Flow Rate (Nm³/hr)	152267		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCL/24-25/SE-05/04

Date : 08/06/2024

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

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-05/04		
02	Date of Sampling	24.05.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	79		
07	Exit Velocity of Gas (m/sec)	8.2		
08	Flow Rate (Nm³/hr)	28268		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

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Report No.: ENV/HCL/24-25/SE-06/02
Date : 05/07/2024

Order No.: HCL/WO/24-25/04/24
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 Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	583	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	309	mg/Nm³	800

*NA: Not Applicable



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Date : 05/07/2024

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

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 Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	330	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	162	mg/Nm³	800

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Report No.: ENV/HCL/24-25/SE-06/03
Date : 05/07/2024

Order No.: HCCL/WO/24-25/04/24
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 Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	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/HCL/24-25/SE-06/04

Date : 05/07/2024

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

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 Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	18	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

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Report No.: ENV/HCL/24-25/SE-07/02

Date : 06/08/2024

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

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-07/02		
02	Date of Sampling	12.07.2024		
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)	174		
07	Exit Velocity of Gas (m/sec)	14.9		
08	Flow Rate (Nm³/hr)	252805		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	640	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	286	mg/Nm³	800

*NA: Not Applicable

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Report No.: ENV/HCL/24-25/SE-07/01
Date : 06/08/2024

Order No.: HCL/WO/24-25/04/24
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-07/01		
02	Date of Sampling	12.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	75		
07	Exit Velocity of Gas (m/sec)	19.2		
08	Flow Rate (Nm³/hr)	66950		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	389	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	152	mg/Nm³	800



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Report No.: ENV/HCL/24-25/SE-07/03
Date : 06/08/2024

Order No.: HCCL/WO/24-25/04/24
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-07/03		
02	Date of Sampling	13.07.2024		
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)	243		
07	Exit Velocity of Gas (m/sec)	11.7		
08	Flow Rate (Nm³ /hr)	149802		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL [#]	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/SE-07/04

Date : 06/08/2024

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

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-07/04		
02	Date of Sampling	13.07.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	75		
07	Exit Velocity of Gas (m/sec)	8.3		
08	Flow Rate (Nm³/hr)	28942		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	20	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCL/24-25/SE-08/02

Date : 06/09/2024

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

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-08/02		
02	Date of Sampling	23.08.2024		
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)	174		
07	Exit Velocity of Gas (m/sec)	15.9		
08	Flow Rate (Nm³/hr)	269772		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	572	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	297	mg/Nm³	800

*NA: Not Applicable

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Report No.: ENV/HCL/24-25/SE-08/03

Date : 06/09/2024

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

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-08/03		
02	Date of Sampling	23.08.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	69		
07	Exit Velocity of Gas (m/sec)	19.7		
08	Flow Rate (Nm³/hr)	69898		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	326	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	158	mg/Nm³	800



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/HCCL/24-25/SE-08/01
Date : 06/09/2024

Order No.: HCCL/WO/24-25/04/24
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-08/01		
02	Date of Sampling	23.08.2024		
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)	242		
07	Exit Velocity of Gas (m/sec)	11.2		
08	Flow Rate (Nm³ /hr)	144961		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL [#]	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/SE-08/04
Date : 06/09/2024

Order No.: HCL/WO/24-25/04/24
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-08/04		
02	Date of Sampling	24.08.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	79		
07	Exit Velocity of Gas (m/sec)	8.9		
08	Flow Rate (Nm³/hr)	46194		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	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/24-25/SE-09/02

Date : 05/10/2024

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

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-09/02		
02	Date of Sampling	22.09.2024		
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)	176		
07	Exit Velocity of Gas (m/sec)	16.2		
08	Flow Rate (Nm³/hr)	273638		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	676	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	286	mg/Nm³	800

*NA: Not Applicable



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Report No.: ENV/HCL/24-25/SE-09/04

Date : 05/10/2024

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

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-09/04		
02	Date of Sampling	22.09.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	78		
07	Exit Velocity of Gas (m/sec)	21.4		
08	Flow Rate (Nm³/hr)	73983		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	378	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	165	mg/Nm³	800



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Report No.: ENV/HCL/24-25/SE-09/03

Date : 05/10/2024

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

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-09/03		
02	Date of Sampling	22.09.2024		
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)	246		
07	Exit Velocity of Gas (m/sec)	11.8		
08	Flow Rate (Nm³/hr)	150209		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/SE-09/01

Date : 05/10/2024

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

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-09/01		
02	Date of Sampling	21.09.2024		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	81		
07	Exit Velocity of Gas (m/sec)	12.6		
08	Flow Rate (Nm³/hr)	43191		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCL/24-25/FE-04/01

Date : 11/05/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
29.04.2024	Coal Storage Section	476	2000
29.04.2024	Lime Stone Storage Section	1548	5000
30.04.2024	Fly-ash Storage Section	1967	5000
30.04.2024	Cement Packing Section	2143	5000

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/FE-05/01

Date : 08/06/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
23.05.2024	Coal Storage Section	483	2000
23.05.2024	Lime Stone Storage Section	1539	5000
24.05.2024	Fly-ash Storage Section	1952	5000
24.05.2024	Cement Packing Section	2127	5000

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Report No.: ENV/HCL/24-25/FE-06/01

Date : 05/07/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
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/HCL/24-25/FE-07/01

Date : 06/08/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
12.07.2024	Coal Storage Section	479	2000
12.07.2024	Lime Stone Storage Section	1531	5000
13.07.2024	Fly-ash Storage Section	1953	5000
13.07.2024	Cement Packing Section	2122	5000

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Report No.: ENV/HCL/24-25/FE-08/01

Date : 06/09/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
23.08.2024	Coal Storage Section	483	2000
23.08.2024	Lime Stone Storage Section	1539	5000
24.08.2024	Fly-ash Storage Section	1947	5000
24.08.2024	Cement Packing Section	2125	5000

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Report No.: ENV/HCL/24-25/FE-09/01

Date : 05/10/2024

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

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 ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
22.09.2024	Coal Storage Section	579	2000
22.09.2024	Lime Stone Storage Section	1729	5000
21.09.2024	Fly-ash Storage Section	2148	5000
21.09.2024	Cement Packing Section	2289	5000

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Ambient Air Quality Monitoring Stations

AAQMS No.-1
Location – Near Crusher
Latitude- 25°13'27.8"N
Longitude- 92°23'18.6"E



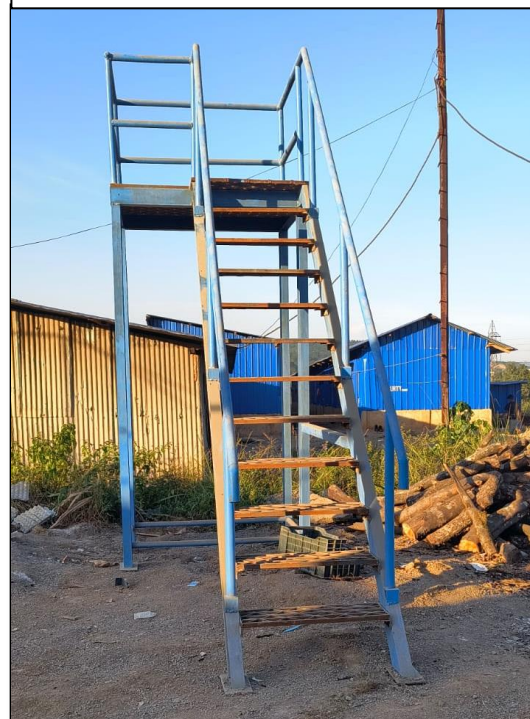
AAQMS No.-2
Location – Near Cement Mill
Latitude- 25°13'38.7"N
Longitude- 92°23'11.6"E



AAQMS No.-3
Location – Near View Point
Latitude- 25°13'25.3"N
Longitude- 92°23'03.3"E



AAQMS No.-4
Worker Colony
Latitude- 25°13'39.2"N
Longitude- 92°22'51.8"E





Report No.: ENV/HCL/24-25/WW-04/01

Date : 11/05/2024

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

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

WASTE WATER ANALYSIS RESULTSSample Ref. No. : HCL/2024/WW-3004/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 30.04.2024
Sample Received On : 02.05.2024
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.73	5.5 – 9.0
2.	Temperature	°C	25.4	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	36	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	4.7	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.3	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCLL/24-25/WW-05/01

Date : 08/06/2024

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

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

WASTE WATER ANALYSIS RESULTSSample Ref. No. : HCLL/2024/WW-2405/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 24.05.2024
Sample Received On : 26.05.2024
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.76	5.5 – 9.0
2.	Temperature	°C	23.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	38	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	91	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	4.9	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.8	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCLL/24-25/WW-06/01

Date : 05/07/2024

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

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

WASTE WATER ANALYSIS RESULTSSample Ref. No. : HCLL/2024/WW-2506/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
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.	pH	--	6.77	5.5 – 9.0
2.	Temperature	°C	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

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/WW-07/01

Date : 06/08/2024

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

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/2024/WW-1307/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 13.07.2024
Sample Received On : 17.07.2024
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.75	5.5 – 9.0
2.	Temperature	°C	24.4	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	37	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	95	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	5.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.8	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/HCLL/24-25/WW-08/01

Date : 06/09/2024

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

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/2024/WW-2408/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 24.08.2024
Sample Received On : 28.08.2024
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.75	5.5 – 9.0
2.	Temperature	°C	24.7	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	40	100
4.	Biochemical Oxygen Demand	mg/l	25	30
5.	Chemical Oxygen Demand	mg/l	95	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	5.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.9	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCCL/24-25/WW-09/01

Date : 05/10/2024

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

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

WASTE WATER ANALYSIS RESULTSSample Ref. No. : HCCL/2024/WW-2209/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 22.09.2024
Sample Received On : 25.09.2024
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.73	5.5 – 9.0
2.	Temperature	°C	24.9	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	42	100
4.	Biochemical Oxygen Demand	mg/l	26	30
5.	Chemical Oxygen Demand	mg/l	99	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	5.7	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	13.2	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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

Report No.: ENV/HCLL/24-25/N-04/01

Date : 11/05/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	30.04.2024	68.2	75	63.9	70
2	Near Crusher Area	30.04.2024	69.4	75	66.3	70
3	Near View Point	29.04.2024	55.3	75	49.5	70
4	Worker Colony	29.04.2024	52.8	75	43.6	70
5	Mynkree Village	29.04.2024	46.3	70	38.2	70



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCLL/24-25/N-05/01

Date : 08/06/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	24.05.2024	69.7	75	64.8	70
2	Near Crusher Area	24.05.2024	70.3	75	65.2	70
3	Near View Point	23.05.2024	51.4	75	47.4	70
4	Worker Colony	23.05.2024	50.7	75	44.9	70
5	Mynkree Village	23.05.2024	45.1	70	37.3	55



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCL/24-25/N-06/01

Date : 05/07/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			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

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/HCCL/24-25/N-07/01

Date : 06/08/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	13.07.2024	68.7	75	64.2	70
2	Near Crusher Area	13.07.2024	69.7	75	65.6	70
3	Near View Point	12.07.2024	51.8	75	47.8	70
4	Worker Colony	12.07.2024	50.1	75	44.4	70
5	Mynkree Village	12.07.2024	45.5	70	39.7	55

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Report No.: ENV/HCL/24-25/N-08/01

Date : 06/09/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	24.08.2024	68.2	75	66.7	70
2	Near Crusher Area	24.08.2024	69.4	75	64.6	70
3	Near View Point	23.08.2024	49.7	75	43.4	70
4	Worker Colony	23.08.2024	50.2	75	44.2	70
5	Mynkree Village	23.08.2024	44.6	70	40.1	55

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Report No.: ENV/HCCL/24-25/N-09/01

Date : 05/10/2024

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

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

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Cement Mill	21.09.2024	69.2	75	65.7	70
2	Near Crusher Area	21.09.2024	70.1	75	63.9	70
3	Near View Point	22.09.2024	51.6	75	49.7	70
4	Worker Colony	22.09.2024	49.3	75	48.2	70
5	Mynkree Village	22.09.2024	47.2	70	45.3	55



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Hills Cement Company Limited

Noise Level Monitoring Report

Month : Apr'2024 – Sep'2024 (All values in Db(A)

Location	October -2023		November- 2023		December - 2023		January -2024		February- 2024		March - 2024	
Day/Night	Day	Night	Day	Night	Day	Night	Day	Day	Day	Night	Day	Night
Kiln	61.5	51.4	62.0	56.8	64.9	59.7	62.1	57.0	68.9	63.1	72.1	66.3
Raw Mill	60.1	49.9	60.9	55.3	63.8	58.2	60.7	55.4	67.6	61.4	70.9	64.7
Raw Mill WF	60.6	51.3	61.7	56.8	64.7	59.7	61.2	56.9	68.6	63.1	71.8	66.3
Coal Mill	59.1	47.5	58.8	52.9	61.7	55.9	59.7	52.8	65.4	58.8	68.6	62.0
Cement Mill	58.4	49.6	61.3	55.2	63.9	57.9	59.0	55.1	68.0	61.3	71.0	64.4
Cement Mill WF	58.7	50.4	60.1	56.1	62.8	58.7	59.3	56.0	66.7	62.2	69.8	65.3
Primary Crusher	57.4	49.9	60.5	55.5	63.2	58.2	58.0	55.4	67.2	61.6	70.3	64.7
Secondary Crusher	60.5	50.8	61.9	56.4	64.6	59.1	61.1	56.4	68.8	62.6	71.7	65.7
Control Room	50.9	41.5	52.6	43.9	58.2	49.6	51.4	46.1	58.5	48.8	64.7	55.1
CCR	52.1	43.3	55.0	46.7	59.6	51.5	52.6	48.1	61.1	51.9	66.2	57.2
Meeting Room	50.5	40.7	51.4	44.0	56.1	48.9	51.0	45.2	57.0	48.9	62.3	54.3
Unit Head Room	47.3	38.3	49.0	41.7	53.6	46.4	47.8	42.5	54.4	46.3	59.6	51.5
Inst. Shift Room	56.4	43.5	55.9	46.9	60.5	51.6	56.9	48.3	62.0	52.1	67.2	57.4
Drawing Office	61.7	55.9	59.7	52.8	65.4	58.8	68.6	62.0	61.7	55.9	61.7	55.9
a)Chemical Lab	59.5	50.4	61.3	54.2	65.9	58.7	60.1	56.0	68.2	60.2	73.2	65.3
b)Physical Lab	61.2	52.1	60.1	52.8	64.6	57.4	61.7	57.9	66.7	58.7	71.7	63.8
c)Shift Lab	54.3	44.5	57.2	48.1	61.8	52.6	54.9	49.4	63.6	53.4	68.7	58.5
Dispensary	42.8	27.6	41.1	34.9	45.2	39.2	43.2	30.7	45.6	38.8	50.2	43.5
Colony (DGM)	44.4	28.8	42.0	36.5	46.3	40.6	44.9	32.0	46.7	40.5	51.4	45.1
Executive Building	44.4	28.4	42.3	35.9	46.5	40.1	44.9	31.6	47.0	39.9	51.6	44.5

Details of implemented environmental protection measures and safeguards recommended in the EIA/EMP

1. Installation of pollution control devices at

Sr. No.	Stack Name	Name of pollution control devices
1	Clinker cooler	ESP
2	crusher	Bag house
3	RABH (kiln& raw mill)	Reverse Air Bag house
4	Coal mill	Bag house
5	Cement mill	Bag house

2. Installation of Bag filters on each transfer point to control fugitive dust emission.
3. Installation of STP for domestic effluent treatment.
4. Installation of permanent water sprinkler system from Main Road to CCR.
5. Water sprinkling being also done through tanker.
6. Green Belt/Horticulture Dev. As per green belt development plan.
7. Third party Env. Monitoring on monthly basis.
8. Road construction to control the fugitive emissions.
9. Establishment Occupational Health Center.
10. Adopting energy efficient lights.
11. Housekeeping & maintenance of entire premises.



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Hills Cement Company Limited						
Project Address:	Hills Cement Company Limited, Mynkre, Khliehriat, East Jaintia Hills						
Village:	Mynkre	Block:	Khliehriat				
District:	East Jaintia Hills	State:	Meghalaya				
Pin Code:							
Communication Address:	Vill: Mynkree, 116 Km Stone, Nh-44, Khlieriat, Khliehriat, East Jaintia Hills, Meghalaya - 793210						
Address of CGWB Regional Office :	Central Ground Water Board North Eastern Region, Betkuchi, Opposite Isbt., Nh-37, Guwahati., Kamrup Metro, Assam - 781035						

1. NOC No.:	CGWA/NOC/IND/REN/1/2024/9460	2. Date of Issuance	02/05/2024										
3. Application No.:	21-4/88/ML/IND/2020	4. Category: (GWRE 2023)	Safe										
5. Project Status:	Existing Ground Water	6. NOC Type:	Renewal										
7. Valid from:	29/01/2024	8. Valid up to:	28/01/2027										
9. Ground Water Abstraction Permitted:													
Fresh Water		Saline Water		Dewatering		Total							
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year						
450.00	162300.00												
10. Details of ground water abstraction /Dewatering structures													
Total Existing No.:1							Total Proposed No.:2						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*	0	0	1	0	0	0	0	0	2	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps													
11. Ground Water Abstraction/Restoration Charges paid (Rs.):	427050.00												
12. Environment Compensation (if applicable) paid (Rs.):	0.00												
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism						
							Manual	DWLR**	DWLR With Telemetry				
**DWLR - Digital Water Level Recorder	1						0	1	0				

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

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पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

**पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE**

CENTRAL GROUND WATER AUTHORITY

Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
<https://cgwa-noc.gov.in>

Application No.:	21-4/88/ML/IND/2020	Date of Issuance:	02/05/2024
Name of Firm:	HILLS CEMENT COMPANY LIMITED		
AppType Category:	Cement Industry		
Application Type:	Industrial		
PAN/GSTIN No. of Firm/Individual:	/		

S N	Description	Amount (Rs.)
1.	Application Processing Fee	5000.00
2.	Ground Water Abstraction charges	427050.00
3.	Ground Water Restoration charges	0
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-	
5.	Penalty for non-Compliance of NOC conditions Condition to be mentioned	
6.	Adjustment Charges	
7.	Rebate	
8.	Charges for correction/modification in the existing issued No Objection Certificate	
S.No.	Description	Rate
(i)	Change in User ID	Rs. 1000
(ii)	Change in firm Name	Rs. 5000
(iii)	Extension of No Objection Certificate	Rs. 5000
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000
(vi)	Any other items/correction etc.	Rs. 500
Rs. Rupees Four Lakh Thirty Two Thousand Fifty Only		432050.00

This is an system generated invoice, hence, does not require ink signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY

Online Pollution Monitoring Portal							
Site Name: Hills Cement Company limited							
From Date: 2024/04/01 To Date: 2024/09/30							
Report Name: Custom Report							
Report Created by HCCL on 2024-11-28 16:23:58 (Unit-mg/Nm3)							
Sl No.	Time	Stack 1 Raw Mill Kiln (PM)	Stack 1 Raw Mill Kiln (SO2)	Stack 1 Raw Mill Kiln (Nox)	Stack 2 Cooler ESP (PM)	Stack 3 COAL MILL (PM)	Stack 4 CEMENT MILL (PM)
1	2024-04-01	15.03	600.16	333.17	18.64	17.37	15.95
2	2024-04-02	15.7	402.58	221.98	18.13	13.85	17.64
3	2024-04-03	16.15	275.55	146.45	14.44	9.82	17.18
4	2024-04-04	10.8	36.72	25.35	2.32	0.03	18.37
5	2024-04-05	9.59	134.58	74.78	9	6.95	19.67
6	2024-04-06	14.75	484.78	250.88	19.2	17.19	11.54
7	2024-04-07	15.04	539.31	278.9	18.84	17.45	17.52
8	2024-04-08	14.57	580.06	301.79	18.88	17.45	13.75
9	2024-04-09	14.63	619.36	324.39	19.17	17.61	19.26
10	2024-04-10	14.39	625.16	324.48	18.96	17.37	19.49
11	2024-04-11	14.39	637.47	327.38	19.03	18.75	17.96
12	2024-04-12	13.93	634.78	325.65	18.99	18.41	17.27
13	2024-04-13	13.81	646.47	332.57	19.08	18.57	16.17
14	2024-04-14	14.4	640.68	331.02	19.1	17.28	13.76
15	2024-04-15	13.85	631.68	322.94	19.05	18.75	15.87
16	2024-04-16	14.8	631.19	322.63	19.31	19.96	15.7
17	2024-04-17	14.13	643.79	330.73	19.06	19.38	12.27
18	2024-04-18	14.05	648.9	331.59	18.93	19.72	16.83
19	2024-04-19	14.25	644.41	330.19	18.8	19.82	17.28
20	2024-04-20	14.41	631.95	326.68	18.83	19.6	16.41
21	2024-04-21	14.58	610.91	314.78	18.01	19.1	16.46
22	2024-04-22	14.86	646.71	332.17	18.25	19.6	13.23
23	2024-04-23	15.78	621.94	318.27	18.64	20.26	11.07
24	2024-04-24	13.9	641.27	325.76	18.74	18.23	12.45
25	2024-04-25	14.2	667.97	335.1	18.9	19.85	15.07
26	2024-04-26	15.27	641.96	317.76	18.79	19.54	16.25
27	2024-04-27	14.9	656.43	328.28	18.77	18.6	16.29
28	2024-04-28	13.86	658.34	329.58	18.75	18.87	16.94
29	2024-04-29	14.28	650.64	323.24	18.14	18.63	17.07
30	2024-04-30	15.71	603.51	299.12	18.47	18.39	6.12
31	2024-05-01	14.01	676.05	334.78	18.77	18.65	17.71
32	2024-05-02	14.08	668.9	340.21	18.56	18.91	14.35
33	2024-05-03	15.85	698.26	344.38	18.79	19	7.86
34	2024-05-04	15.38	710.96	353.97	18.86	19.32	0.18
35	2024-05-05	15.15	709.2	351.86	18.81	19.09	0.56
36	2024-05-06	15.33	699.9	348.12	18.81	19.43	9.22
37	2024-05-07	14.78	702.4	346.34	18.92	17.65	14.03
38	2024-05-08	14.02	705.78	350.01	18.9	18.05	15.61
39	2024-05-09	14.06	698.16	345.36	18.8	18.18	16.48
40	2024-05-10	13.07	713.13	351.1	18.84	18.21	14.56
41	2024-05-11	13.22	719.35	356.6	18.86	18.54	11.95
42	2024-05-12	11.91	715.05	354.77	18.93	18.34	18.67
43	2024-05-13	11.42	688.19	336.86	18.86	18.18	16.34
44	2024-05-14	11.88	722.01	355.8	18.64	18.69	18.05
45	2024-05-15	12.96	704.45	342.72	18.84	17.81	19.07
46	2024-05-16	13.62	363.51	178.69	14.47	12.03	17.19
47	2024-05-17	15.29	361.63	176.95	14.49	10.81	19.7

48	2024-05-18	17.2	535.23	271.33	18.97	17.79	11.28
49	2024-05-19	17.49	624.07	323.23	19.07	18.16	6.46
50	2024-05-20	13.76	643.9	329.67	18.99	18.44	18.13
51	2024-05-21	14.95	644.07	326.03	18.94	17.73	18.91
52	2024-05-22	14.93	642.34	327.09	18.99	17.67	15.81
53	2024-05-23	14.7	639.55	324.37	18.8	17.91	16.98
54	2024-05-24	13.78	651.31	327.09	18.85	17.57	18.69
55	2024-05-25	13.79	651.35	327.52	18.84	17.33	19.81
56	2024-05-26	14.31	671.04	338.9	18.42	17.16	18.41
57	2024-05-27	13.73	666.23	339.29	18.64	17.72	14.29
58	2024-05-28	13.82	651.86	335.77	18.68	18.58	16.33
59	2024-05-29	13.75	636.37	334.27	18.8	19.27	0.56
60	2024-05-30	7.88	219.98	121.64	8.94	7.28	0.39
61	2024-05-31	14.39	599.17	301.2	18.03	17.9	0.3
62	2024-06-01	15.01	693.76	341.79	18.8	17.39	9.09
63	2024-06-02	13.99	703.22	349.02	18.64	19.04	15.09
64	2024-06-03	15.01	707.05	347.86	18.61	17.98	0.33
65	2024-06-04	14.25	611.22	301.47	16.46	16.63	14.17
66	2024-06-05	13.9	693.48	341.93	18.75	18.01	14.28
67	2024-06-06	14.48	702.48	346.08	18.77	17.65	5.32
68	2024-06-07	14.02	706.28	346.56	18.57	17.53	17.25
69	2024-06-08	13.96	700.4	348.26	18.71	18.09	14.16
70	2024-06-09	14.81	425.7	212.49	13.65	12.78	15.37
71	2024-06-10	10.07	158.95	84.97	8.11	5.62	13.55
72	2024-06-11	15.41	644.97	318.6	17.8	17.79	0.29
73	2024-06-12	13.96	677.74	336.21	18.75	18.25	0.59
74	2024-06-13	13.33	680.21	337.22	18.64	18.21	13.87
75	2024-06-14	13.44	691.67	340.35	18.54	18.32	14.35
76	2024-06-15	13.72	722.62	354.41	18.62	17.91	14.09
77	2024-06-16	12.7	734.11	359.61	18.63	17.86	0.98
78	2024-06-17	14.78	701.93	346.37	18.57	17.3	4.34
79	2024-06-18	12.46	660.47	333.17	18.36	16.79	2.73
80	2024-06-19	13.76	560.81	286.22	17.77	16.52	1
81	2024-06-20	13.51	607.73	307.15	18.54	17.66	4.27
82	2024-06-21	13.15	618.34	317.64	18.71	18.16	5.01
83	2024-06-22	13.22	616.55	315	18.86	17.55	5.21
84	2024-06-23	14.08	612.26	316.2	18.36	18	8.14
85	2024-06-24	14.15	569.77	300.16	18.4	17.6	11.28
86	2024-06-25	13.42	612.48	318.64	18.47	18.19	15.86
87	2024-06-26	13.31	598.96	311.76	18.54	17.84	18.24
88	2024-06-27	13.07	603.37	315.38	18.52	17.79	18.37
89	2024-06-28	13.15	525.33	276.91	18.46	17.83	17.89
90	2024-06-29	15.05	598.73	302.23	18.65	17.17	18.14
91	2024-06-30	13.54	602.16	310.24	18.47	17.54	17.68
92	2024-07-01	13.81	606.38	314.35	18.54	17.73	13.86
93	2024-07-02	13.47	626.9	318.95	18.27	17.41	12.78
94	2024-07-03	13.28	617.8	316.35	18.67	17.61	7.24
95	2024-07-04	12.89	601.18	317.89	18.77	17.84	19.51
96	2024-07-05	12.97	571.87	295.84	17.68	18.28	18.75
97	2024-07-06	12.6	588.41	305.86	18.48	18.06	6.64
98	2024-07-07	12.7	584.8	306.79	18.67	18.2	1.3
99	2024-07-08	13.44	593.16	304.08	18.81	18.17	19.44
100	2024-07-09	13.89	609.41	312.03	18.78	17.75	19.17
101	2024-07-10	13.59	641.03	323.82	18.51	18.02	19.8
102	2024-07-11	13.2	637.43	319.77	18.4	17.29	5.28
103	2024-07-12	15.3	601.5	310.87	18.74	17.8	8.61

104	2024-07-13	14.92	600.11	302.49	18.43	18.94	19.52
105	2024-07-14	14.99	608.21	311.24	18.63	17.17	13.83
106	2024-07-15	14.61	108.33	36.08	9.06	0.92	1
107	2024-07-16	9.72	59.7	19.5	4.05	0.45	16.38
108	2024-07-17	9.47	11.83	15.42	4.11	0.43	18.64
109	2024-07-18	9.01	8.74	14.95	4.1	0.44	13.35
110	2024-07-19	7.75	9.33	14.03	4.08	0.44	19.05
111	2024-07-20	2.04	8.19	14.04	4.08	0.36	19.3
112	2024-07-21	2.2	7.74	14.05	4.1	0.34	8.77
113	2024-07-22	2.38	8.52	14.4	4.11	0.38	13.96
114	2024-07-23	2.35	9.43	13.89	4.11	0.39	20.11
115	2024-07-24	2.3	10.52	15.1	4.09	0.4	20.3
116	2024-07-25	2.23	11.16	16.33	3.95	0.35	10.54
117	2024-07-26	2.17	12.88	15.49	3.87	0.35	18.81
118	2024-07-27	2.19	12.27	16.22	3.86	0.34	20.56
119	2024-07-28	2.22	12.77	15.78	3.85	0.36	22.19
120	2024-07-29	2.26	12.49	16.17	3.87	0.34	16.05
121	2024-07-30	2.32	12.73	15.77	3.91	0.3	24.23
122	2024-07-31	2.31	10.97	15.82	3.91	1.63	19.54
123	2024-08-01	11.51	83.66	50.38	7.02	11.96	18.9
124	2024-08-02	16.77	399.25	219.93	18.5	16.88	19.79
125	2024-08-03	16.81	477.18	261.54	18.7	17.13	18.14
126	2024-08-04	15.62	475.09	267.6	18.33	17.54	18.59
127	2024-08-05	16.16	498.17	271.79	18.1	17.65	18.4
128	2024-08-06	15.91	460.53	244.19	18.15	15.58	16.84
129	2024-08-07	16.5	524.57	273.91	18.51	17.69	16.29
130	2024-08-08	16.66	525.4	277.47	18.6	17.37	17.81
131	2024-08-09	16.5	511.29	267.82	18.87	16.26	20.13
132	2024-08-10	15.91	392.9	197.43	17.07	14.27	20.35
133	2024-08-11	15.66	522.93	253.92	18.65	17.03	15
134	2024-08-12	15.12	531.39	262	18.84	17.11	16.6
135	2024-08-13	15.36	501.36	245.56	18.7	17	17.35
136	2024-08-14	15.32	523.24	261.26	18.59	16.87	15
137	2024-08-15	15.2	441.88	217.96	17.34	15.02	16.67
138	2024-08-16	15.11	470.13	236.15	18.35	16.89	17.05
139	2024-08-17	15.46	539.58	277.46	18.55	17.23	15.51
140	2024-08-18	15.46	528.94	269.69	18.88	16.81	17.19
141	2024-08-19	16.11	541.87	278.71	19.05	18.21	15.7
142	2024-08-20	16.36	542.89	279.07	19.16	17.85	15.26
143	2024-08-21	15.59	539.75	279.17	19.27	17.47	16.73
144	2024-08-22	15.22	563.71	286.7	18.88	19.06	17.22
145	2024-08-23	14.75	532.7	271.06	19.08	18.59	15
146	2024-08-24	15.29	530.8	276.38	19.24	17.75	15
147	2024-08-25	15.45	543.09	283.06	19.06	18.19	17.63
148	2024-08-26	15.79	537.75	279.02	18.84	18.29	16.7
149	2024-08-27	15.61	535.63	278.89	18.63	18.18	16.35
150	2024-08-28	16.23	524.87	271.51	18.85	17.98	15.54
151	2024-08-29	15.6	533.22	277.18	19.07	18.25	15
152	2024-08-30	15.54	436.72	223.77	18.45	15.59	17.57
153	2024-08-31	15.17	451.44	269.18	18.91	18.87	18.74
154	2024-09-01	15.28	455.33	275.98	18.73	18.9	17.92
155	2024-09-02	15.09	437.03	260.08	18.69	18.05	18.04
156	2024-09-03	16.14	451.57	279.17	18.82	19.24	15.95
157	2024-09-04	15.77	465.84	286.77	18.82	18.87	15.87
158	2024-09-05	15.46	471.29	285.7	18.48	19.06	16.56
159	2024-09-06	15.75	456.86	280.47	18.6	18.54	16.38

160	2024-09-07	15.54	464.48	285.8	18.56	18.32	18.18
161	2024-09-08	15.92	448.73	271.85	18.55	18.83	17.55
162	2024-09-09	12.07	218.43	135.45	11.94	9.88	15.78
163	2024-09-10	16.15	436.46	279.45	19.06	18.67	16.77
164	2024-09-11	15.66	445.73	288.81	18.67	18.89	17.39
165	2024-09-12	15.86	442.4	287.47	18.72	19.08	17.4
166	2024-09-13	15.75	433.44	279.84	18.93	18.88	16.16
167	2024-09-14	15.48	435.37	285.5	18.54	18.97	17.42
168	2024-09-15	16.14	443.12	280.82	18.72	18.34	18.78
169	2024-09-16	16.18	345.05	205.02	18.27	16.06	17
170	2024-09-17	11.77	267.1	173.73	13.21	11.14	15.81
171	2024-09-18	15.92	403.96	270.08	19.06	18.27	16.78
172	2024-09-19	15.82	381.71	250.31	18.68	16.43	17.61
173	2024-09-20	16.24	422.39	279.13	18.66	17.89	17.83
174	2024-09-21	15.02	413.1	274.76	18.56	17.89	17.64
175	2024-09-22	15.24	430.34	282.29	18.62	18.06	17.82
176	2024-09-23	15.18	433.56	279.44	18.43	17.14	16.99
177	2024-09-24	15.62	429.5	279.2	18.69	17.19	17.73
178	2024-09-25	15.42	434.47	283.25	18.77	17.98	18.32
179	2024-09-26	NA	NA	NA	NA	NA	NA
180	2024-09-27	NA	NA	NA	NA	NA	NA
181	2024-09-28	15.54	420.13	272.29	18.91	17.54	17.51
182	2024-09-29	15.59	407.97	268.94	18.63	17.16	17.74
183	2024-09-30	16.12	125.25	84.66	11.59	3.94	15.93

**Hills Cement Company Ltd.
(Green Belt Development Status)**







Annexure-9

Online Pollution Monitoring Portal							
Site Name: Hills Cement Company limited							
From Date: 2024/04/01 To Date: 2024/09/30							
Report Name: Custom Report							
Report Created by HILLCCCL on 2024-11-28 16:46:26							
Sl No.	Time	PM10 - (ug/m3)	PM2.5 - (ug/m3)	SO2 - (ug/m3)	NO - (ug/m3)	NO2 - (ug/m3)	NOx - (ug/m3)
1	2024-04-01	10.6	16.3	0.2	1	6.5	5.5
2	2024-04-02	17.2	23.8	0.2	1.5	5.7	4.3
3	2024-04-03	20.9	20.6	0	1.4	7.5	6.2
4	2024-04-04	14.5	20.6	0.3	0.3	5.2	4.9
5	2024-04-05	15.5	22.3	0.2	1	5.9	4.9
6	2024-04-06	16.5	23.7	0.1	0.9	5	4.2
7	2024-04-07	10.7	15.3	0.2	0.7	5.4	4.7
8	2024-04-08	14.2	18.2	0.8	2.7	8.6	5.9
9	2024-04-09	19.5	24.4	4	2.9	8.9	6
10	2024-04-10	20.1	20.4	8.8	1	7.1	6.2
11	2024-04-11	20.6	29.6	7.5	0.4	6.3	6
12	2024-04-12	16.9	18.8	11.8	0.5	6.6	6.1
13	2024-04-13	20.6	30.1	8.9	0.5	6.6	6.2
14	2024-04-14	22	36.8	4.4	0.4	5.3	5
15	2024-04-15	22.8	37.7	2.3	1.5	7.2	5.7
16	2024-04-16	21.1	34.8	1.4	1.3	6.8	5.5
17	2024-04-17	14	26.5	0.4	0.1	3.3	3.2
18	2024-04-18	13.2	16.9	2.6	1.2	6.2	5.1
19	2024-04-19	9.5	14.3	0.6	0.6	4.6	4.1
20	2024-04-20	10.9	13.4	0.6	0.3	3.6	3.4
21	2024-04-21	7.1	8.8	0	0.2	3.5	3.3
22	2024-04-22	8.8	12.6	0.4	0.9	4.7	3.8
23	2024-04-23	7.9	12.3	0.5	0.3	4.6	4.3
24	2024-04-24	6.6	10.6	0.4	0.5	4.6	4.1
25	2024-04-25	6.5	11.1	0	0.2	3.9	3.8
26	2024-04-26	6.9	10.7	0	0.2	4	3.9
27	2024-04-27	7.6	12	1.6	0.4	5.3	4.9
28	2024-04-28	5.8	9.8	0.1	0.3	3.4	3.2
29	2024-04-29	7	11.6	0.1	0.6	4.5	4
30	2024-04-30	6.3	11.3	0	0.8	5.1	4.4
31	2024-05-01	5.3	8.4	0.1	0.3	3.3	3.1
32	2024-05-02	3.5	4.7	0.1	1.4	5.3	3.9
33	2024-05-03	8.1	9	0.2	3.7	9.3	5.6
34	2024-05-04	8.1	9	0.5	3.3	8	4.8
35	2024-05-05	3.3	4.8	0.7	0.2	3.7	3.6
36	2024-05-06	3.5	6.1	0.4	0.8	5.8	5
37	2024-05-07	6.9	6.8	0.2	2	6.3	4.4
38	2024-05-08	7.2	8	0.5	2.6	6.1	3.5
39	2024-05-09	8.1	8.8	0	3.7	7	3.3
40	2024-05-10	10.3	19.2	0.1	0.8	4.9	4
41	2024-05-11	7	6.6	0.3	1.1	4.6	3.6
42	2024-05-12	6.3	6.2	0.2	1	4.5	3.5
43	2024-05-13	8.8	9.8	0.1	1.1	4.7	3.6
44	2024-05-14	10.3	12.2	0.1	1.5	5	3.5
45	2024-05-15	13	15.3	0.2	2.1	6.1	4
46	2024-05-16	14.4	19.7	0.1	1.7	6.9	5.2
47	2024-05-17	10.8	17.5	0.5	0.3	3.7	3.5
48	2024-05-18	9.1	12.7	0.1	1.4	7.8	6.4
49	2024-05-19	6.8	11.3	0.2	0.6	3.9	3.3
50	2024-05-20	8.9	12	0	0.7	4.2	3.6
51	2024-05-21	9.5	14.3	0	0.6	5.5	4.8
52	2024-05-22	10.2	13.2	0.5	1.5	7.1	5.6
53	2024-05-23	11	13	0.1	3	7.5	4.5

54	2024-05-24	10.4	9.4	0	1.7	6.4	4.8
55	2024-05-25	9.2	8.4	0.1	1	5.1	4.1
56	2024-05-26	4.3	3.8	0.4	0.7	3	2.4
57	2024-05-27	3	2.8	0	0.5	1.7	1.2
58	2024-05-28	1.3	1.7	0.1	0.2	2.1	1.9
59	2024-05-29	2.2	4.3	0.4	0	2.5	2.6
60	2024-05-30	2.4	4.9	0.4	0.2	3.5	3.3
61	2024-05-31	3.7	6.1	0	1.3	3.2	1.9
62	2024-06-01	7.4	8	0	0.9	3.6	2.7
63	2024-06-02	5.3	7.5	0.2	0.4	2.3	1.9
64	2024-06-03	5.3	4.7	0.4	0.6	3.4	2.9
65	2024-06-04	3.7	4.8	0	1.1	3.7	2.6
66	2024-06-05	8.6	7.3	0	1.3	5.1	3.7
67	2024-06-06	12.3	12.4	0	1.4	3.6	2.2
68	2024-06-07	10.3	12.9	0.1	1.1	3.6	2.5
69	2024-06-08	8.7	9.8	0.4	0.7	3.3	2.6
70	2024-06-09	5.9	6	0.2	1	4	3
71	2024-06-10	7.4	6.8	0.2	0.8	3.5	2.7
72	2024-06-11	14	11.3	0.2	1	3.6	2.6
73	2024-06-12	6.4	7.3	0	0.5	2.5	2
74	2024-06-13	2.7	3.6	0	0.2	3.8	3.6
75	2024-06-14	3.6	5	0	0.4	3.3	3
76	2024-06-15	2.8	4.4	0	0.1	2.9	2.8
77	2024-06-16	1.8	3.1	0	0.1	2.2	2.2
78	2024-06-17	2.3	4	0.1	0.1	0.9	0.9
79	2024-06-18	1.1	1.7	0.4	0	1.5	1.6
80	2024-06-19	1.8	3.2	0	0.2	2.6	2.5
81	2024-06-20	2.4	3	0	0.7	2.4	1.7
82	2024-06-21	8	6.5	0	1.7	2.9	1.2
83	2024-06-22	8.7	7	0	5.1	6.4	1.4
84	2024-06-23	8.8	5.6	0	3.8	4.9	1.1
85	2024-06-24	6.9	5.1	0.1	3.7	4.6	1
86	2024-06-25	5.6	4.6	0.2	3	4.7	1.8
87	2024-06-26	4.9	6	0	1	2.5	1.5
88	2024-06-27	4.5	4	0	1.2	2.8	1.6
89	2024-06-28	1.9	1.6	0.6	0.6	1.8	1.2
90	2024-06-29	1.2	1.5	0.4	0.6	1.9	1.3
91	2024-06-30	1.1	1.5	0	1	2.7	1.7
92	2024-07-01	0.7	1	0.1	0.3	2.1	1.8
93	2024-07-02	2.4	2.4	0	0.8	2.3	1.4
94	2024-07-03	2.5	2.9	0	1.2	3.2	2
95	2024-07-04	2.5	2.7	0	0.6	1.7	1.1
96	2024-07-05	2	3	0	1	3	2
97	2024-07-06	4	3.9	0	1.3	2	0.8
98	2024-07-07	6.4	4.3	0.5	1.2	2	0.8
99	2024-07-08	4.9	3.7	0.8	1.9	3.4	1.5
100	2024-07-09	2	2.3	0.3	0.6	1	0.5
101	2024-07-10	1.6	1.8	0.3	0.4	1.6	1.2
102	2024-07-11	1.8	2.5	0	0.8	2.4	1.7
103	2024-07-12	2.2	2.9	0	2.2	4.6	2.4
104	2024-07-13	4.5	3.6	0.1	1.7	2.5	0.8
105	2024-07-14	5.8	5	0	3.1	5.7	2.6
106	2024-07-15	7.3	4	0.2	2.4	3.9	1.5
107	2024-07-16	7.5	4.4	0.8	1.8	3.4	1.6
108	2024-07-17	13	10	0.6	3.5	5.9	2.4
109	2024-07-18	6.8	6	0	1.9	2.8	1
110	2024-07-19	7	4	0.4	1.6	3.3	1.8
111	2024-07-20	6.3	2.3	0.4	1.9	3.4	1.5
112	2024-07-21	1.5	1.2	0.6	0.7	2	1.4
113	2024-07-22	1.3	1.3	0.8	0.7	1.7	1
114	2024-07-23	2.1	1.5	0.2	1.2	2.2	1

115	2024-07-24	4.6	1.9	0	1.6	3.1	1.5
116	2024-07-25	3.6	2.2	0.2	0.9	2.5	1.6
117	2024-07-26	10.5	3.2	0.2	1.9	3.4	1.6
118	2024-07-27	8	3.7	0	1.5	3.2	1.8
119	2024-07-28	4.7	2.1	0.2	0.7	2.2	1.5
120	2024-07-29	2.2	1.6	0.3	0.4	1.9	1.5
121	2024-07-30	3	2.7	0.1	1.6	3.4	1.8
122	2024-07-31	4	3.5	0.3	2.1	4.1	2
123	2024-08-01	2.4	1.7	0.1	1.2	2.9	1.7
124	2024-08-02	1.5	1.3	0	0.9	3.2	2.3
125	2024-08-03	2.2	2.6	0.1	1.2	3.5	2.3
126	2024-08-04	2.4	2.9	0.2	0.5	2	1.6
127	2024-08-05	2.2	2.3	0.1	1.6	3.2	1.6
128	2024-08-06	3.4	2.5	0.1	2	3.7	1.7
129	2024-08-07	2.3	2.2	0.3	1.5	2.6	1.2
130	2024-08-08	1.4	1.9	0.6	0.3	0.8	0.6
131	2024-08-09	1.3	1.6	0.2	0.3	0.6	0.3
132	2024-08-10	1.8	2.6	0.2	1.2	2.6	1.4
133	2024-08-11	2.1	3.4	0.1	1.1	2.8	1.7
134	2024-08-12	1.4	2.4	0.1	0.7	2.2	1.5
135	2024-08-13	4.6	7	0	2.6	4.9	2.3
136	2024-08-14	6.5	7.7	0.1	1.7	2.7	1
137	2024-08-15	3.3	4.8	0.6	1	2.8	1.8
138	2024-08-16	3.8	4.4	0.4	1.4	3.5	2.1
139	2024-08-17	4.2	5.7	0.4	1.8	3.3	1.5
140	2024-08-18	3.1	4.9	0.3	1.3	3	1.8
141	2024-08-19	2	2.9	0.4	1.4	3	1.7
142	2024-08-20	0.8	1	0.2	0.3	1.3	1.1
143	2024-08-21	2	1.5	0	4	6.3	2.3
144	2024-08-22	2.3	1.4	0.1	1.2	4.2	2.9
145	2024-08-23	3.8	2.1	0.1	1.7	2.7	1.1
146	2024-08-24	2.3	2.3	0	2.3	3.8	1.5
147	2024-08-25	2	1.5	0.2	1.6	2.5	0.9
148	2024-08-26	8.4	3.3	0	4.4	6.1	1.6
149	2024-08-27	10.4	3.8	0	2.8	4.4	1.7
150	2024-08-28	7.5	6.1	0.4	2.8	4.8	2
151	2024-08-29	4.4	5.9	0.6	1	3.5	2.5
152	2024-08-30	8.3	5.4	0.1	1.4	3.6	2.2
153	2024-08-31	9.1	3.4	0	2.1	4.4	2.3
154	2024-09-01	5.9	4	0	1.7	3.9	2.2
155	2024-09-02	7.1	4.5	0	2	3.6	1.6
156	2024-09-03	9.9	3.2	0	2.2	3.9	1.8
157	2024-09-04	12.2	3.7	0.1	1.3	2.9	1.5
158	2024-09-05	11.2	5.1	0	1.7	3.3	2.2
159	2024-09-06	36.4	6.4	4	1.9	3	4.8
160	2024-09-07	102.6	9.3	7.5	6.9	11	17.9
161	2024-09-08	70.9	6.2	11.8	4.4	7.5	11.9
162	2024-09-09	96.3	8	10.5	4.3	6.3	10.6
163	2024-09-10	78.8	7.2	9.2	4.2	4.8	9
164	2024-09-11	75.9	8.9	8.4	4.3	5.6	9.9
165	2024-09-12	55.8	5	12	5.1	6.7	11.8
166	2024-09-13	63.9	4.7	11.8	4	4.7	8.6
167	2024-09-14	134	11.1	14.5	6.4	7.2	13.6
168	2024-09-15	96.1	10.8	21.4	6.7	7.5	14.2
169	2024-09-16	117.7	9.7	15.8	6	7.8	13.7
170	2024-09-17	73	12.5	10.3	4.8	5.6	10.4
171	2024-09-18	NA	NA	NA	NA	NA	NA
172	2024-09-19	NA	NA	NA	NA	NA	NA
173	2024-09-20	NA	NA	NA	NA	NA	NA
174	2024-09-21	NA	NA	NA	NA	NA	NA
175	2024-09-22	NA	NA	NA	NA	NA	NA

176	2024-09-23	NA	NA	NA	NA	NA	NA
177	2024-09-24	NA	NA	NA	NA	NA	NA
178	2024-09-25	NA	NA	NA	NA	NA	NA
179	2024-09-26	NA	NA	NA	NA	NA	NA
180	2024-09-27	NA	NA	NA	NA	NA	NA
181	2024-09-28	53.2	6.8	11.5	14	14.6	28.6
182	2024-09-29	20.1	3.8	7.1	5.9	9.3	15.3
183	2024-09-30	106.3	34.1	1.6	3.4	6.4	9.8
184	Prescribed Standards	0 - 100	0 - 60	0 - 80	0 - 80	0 - 80	0 - 80
185	Maximum Value	134	37.7	21.4	14	14.6	28.6
186	Maximum Value At Time	2024-09-14	2024-04-15	2024-09-15	2024-09-28	2024-09-28	2024-09-28
187	Minimum Value	0.7	1	0	0	0.6	0.3
188	Minimum Value At Time	2024-07-01	2024-07-01	2024-04-03	2024-05-29	2024-08-09	2024-08-09
189	Geometric Mean	13.13	8.1	1.38	1.64	4.27	3.6
190	Median	6.8	5.6	0.2	1.2	3.7	2.5
191	Standard Deviation	22.61	7.38	3.46	1.69	2.06	3.51
192	Valid Data Points	173	173	173	173	173	173
193	Total Data Points	183	183	183	183	183	183
194	Data Availability %	94.54	94.54	94.54	94.54	94.54	94.54

Covered Shed



GARLAND DRAIN



NEUTRALISATION PIT

