

HCCL/HYCR/21-22/001

Date 30/07/21

To,

✓ The Joint Director (S),

Ministry of Environment, Forest &amp; Climate Change,

North Eastern Regional Office,

Law-U-Sib, Lumbatngen, Shillong (Meghalaya) -793021Ref: - EC No. J-11011/762/2007-IA II (I) Dated 03-06-2009**Sub: - Submission of Half Yearly Compliance Report of Environmental Clearance for the period From 01<sup>st</sup> Oct 2020 to 31<sup>st</sup> March 2021.**

Dear Sir,

With reference to the subject mention above we would like to submit our Half Yearly Compliance Report of Environmental Clearance for the period from 01<sup>st</sup> Oct 2020 to 31<sup>st</sup> March 2021.

This is to inform you that, due to the prevailing pandemic situation of Covid 19 & the several restrictions imposed by the state administration for the movement of individuals within state or outside the state, our consultant were unable to carry out the monitoring job and prepare the monthly report for the month of October 2020.

Therefore kindly consider the same and do the needful.

Thanking You

Your Faithfully

For Hills Cement Company Limited  
**HILLS CEMENT CO. LTD.**

Authorized Signatory

Authorized Signatory

Copy to:-

Member Secretary, Meghalaya State Pollution Control Board for information.

**HILLS CEMENT COMPANY LIMITED**

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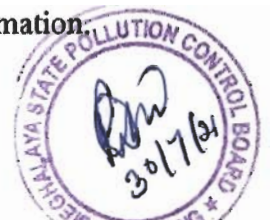
  
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**HILLS CEMENT COMPANY LIMITED**



**Compliance Report of Environmental Clearance**  
**For the Period 1<sup>st</sup> Oct 2020 to 31<sup>st</sup> March 2021**

**HILLS CEMENT COMPANY LTD.**

Vill: Mynkree, 116 KM Stone, NH - 44

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

**GENERAL CONDITIONS**

Sl. No.	Condition	Status
01	The project authority must adhere to the stipulations made by Meghalaya Pollution Control Board and State Government.	We are following all the stipulations and directives issued by Meghalaya Pollution Control Board and the State Government.
02	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	No further expansion or modifications are being planned presently. However, prior approval of the Ministry of Environment and Forests will be taken for further expansion or modifications in the plant, if any.
03	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the Meghalaya State Pollution Control Board. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Shillong and Meghalaya State Pollution Control Board once in six months.	AAQ monitoring stations are being installed. Presently, these services are being monitored by authorized agency and the reports submitted by them are regularly submitted to MOEF and MSPCB. A sample report on Ambient Air Quality Test Results, Stack Emission Test Results and Waste Water Analysis is being enclosed herewith.
04	Industrial waste water shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.	No wastewater is generated from the plant. However, wastewater generated from domestic & other uses is being collected in STPs and treated and reused for greenbelt development purposes. Photographs of STP are enclosed herewith.
05	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989, viz 75 dBA (day time) and 70dBA (night time).	The noise levels in and around the plant area are kept within the standards using noise control measure such as silencers.
06	Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance programme shall be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.	All the workers in the dust/noise prone areas are being provided with PPE kits such as helmets, industrial gloves, gum boots, masks etc.  Preventive Health Check-ups including COVID test are being organized at regular intervals.  Lung function and sputum analysis test are also being organized regularly.
07	The company shall harvest the rainwater from the roof tops and storm water drains to recharge the ground water.	Rain water harvesting system has been installed and ground water is being recharged.

08	The company shall undertake eco-development measures including community welfare measures in the project area.	40% of the project area is being developed as Green Belt area. Plantation Activities are being carried out at regular intervals.  Moreover, various activities on health, education, sanitization, sports etc. are being organized as community welfare measures.  Few photographs of the same are being enclosed herewith.
09	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP.	The Company is complying with all the protection measures and safeguards recommended by EIA/EMP report.
10	A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	A separate environmental management cell has been set up.
11	Adequate funds shall be earmarked towards capital cost and recurring cost/annum for the environmental protection measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and submit implementation schedule for all the conditions stipulated herein to the Regional office of this Ministry at Shillong/Central Pollution Control Board/Meghalaya State Pollution Control Board. The funds so provided shall not be diverted for any other purposes.	The fund expenditure for environmental protection/control measures during the financial year 2020-2021 enclosed herewith.
12	The Regional Office of this Ministry at Shillong /Central Pollution Control Board/Meghalaya Pollution Control Board will monitor the stipulated conditions and six monthly compliance report and the monitored data along-with statistical interpretation shall be submitted to them regularly.	Compliance reports are being submitted regularly to all the concerned departments.
13	The Project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	The condition is being followed and the Ministry's Regional Office Shillong has been informed.
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language the locality concerned and a copy of the same shall be forwarded to the Regional Office at Shillong.	The condition is being complied with.
15	The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Shillong.	Noted.
16	The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.	Noted.
17	Any appeal against this environment clearance shall be with the National Environment appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act. 1997.	Noted.

18	Any other conditions or alteration in the above conditions will have to be implemented by the project authorities in a time-bound manner.	Noted.
19	The above conditions will be implemented inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted.

### SPECIFIC CONDITIONS

Sl. No.	Condition	Status
01	The company should obtain necessary clearances/approval from the concerned Departments i.e. Indian Bureau of Mines, State Government, Ministry of Environment and Forests etc for the linked mining component before undertaking any construction activity at the project site.	All required clearances and approvals have been obtained from the concerned departments.
02	Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided. After expansion, limit of SPM shall be controlled within 50 mg/Nm <sup>3</sup> by installing adequate air pollution control system. Electrostatic precipitators (ESP) to clinker cooler and power plant and bag house to raw mill and kiln, coal mill, cement mill, packing plant, primary and secondary crusher shall be provided to control emissions within 50 mg/Nm <sup>3</sup> . Adequate chimney height as per CPCB guidelines shall be provided to AFBC boiler to control emissions. Interlocking facility shall be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit is shut down automatically.	Continuous Stack Monitoring facility has been installed. All required air pollution control devices like ESP, RABH etc. have been installed and properly maintained to keep the ambient air quality within permissible limits. Adequate heights have been provided to all the stacks. Interlocking facilities have been installed.
03	Secondary fugitive emissions shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of Practice issued by the CPCB in this regard shall be followed.	Regular monitoring for secondary fugitive emission is being done by authorized agencies. Emission levels are under control and within limits. Reports submitted by Environcon on Fugitive Emission Test are enclosed herewith.
04	The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Bag filters shall be installed at all material transfer points, material conveying points, cement silo and packing area. Air jet type bag filters shall be provided to raw material handling area and conveyors to control fugitive emissions. Reserve jet bag filter shall be provided to raw mill- I & II, blending silos, coal and cement grinding mill etc. Cyclones and bag filters shall be provided at crushing areas. The material shall be transported in covered chutes or trucks. Dust suppression with water spraying shall be provided to control secondary fugitive emissions.	Adequate measures are being taken to control fugitive dust emissions at various transfer points. Water tankers, bag filters etc. are used at various points to control dust in and around the plant. Raw materials are stored in covered sheds and Finished Products are stored in silos.
05	Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Shillong, Meghalaya Pollution Control Board (MPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months Data on SPM, SO <sub>2</sub> and NO <sub>2</sub> shall also be displayed prominently outside the premises at the appropriate place for the information of general public.	Data on ambient air quality stack emissions and fugitive emissions are uploaded on the company's website and submitted online to the concerned authorities on a regular basis. Data on SPM, SO <sub>2</sub> and NO <sub>2</sub> are being displayed prominently outside the premises for the information of general public. Photographs of the display board with respective data are enclosed herewith.
06	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land. All the raw Materials, including fly ash shall be transported in closed containers only and should not be overloaded. Vehicular emission shall be regularly monitored.	All raw material as well as finished products are loaded as per the capacity and transported only in closed containers and covered vehicles. Vehicular emission is also being regularly checked. Water is sprinkled through water tankers on the road and surrounding areas for dust suppression. Photograph Enclosed herewith.

07	Total water requirement from underground natural springs should not exceed 300 m <sup>3</sup> /day. All the effluent from DM plant shall be properly treated in the neutralization pit and all the treated wastewater along-with boiler blow down shall be recycled and reused in the process and/or for ash conditioning, dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and zero discharge shall be adopted. Domestic treated water shall be treated in Sewage Treatment Plant (STP) and used for the green belt development. No wastewater shall be discharged into any stream/river and 'Zero' discharge shall be adopted.	Daily water consumption from underground natural spring is within the limit. Industrial and domestic sewage are treated in STPs and processed water is reused for green-belt development and to suppress dust. No processed water is discharged into any stream/river or outside the factory premises.
08	Prior permission for the drawl of 1,5000 m <sup>3</sup> /day shall be obtained from concerned Department.	We have already applied for NOC at CGWA along with all the required project papers and documents.
09	All the bag filter dust, raw mill dust, Coal dust, clinker dust and cement dust from pollution control devices shall be recycled and reused in the process and used for cement manufacturing. Ash from CPP shall be collected in various hoppers of dust collection system and transported pneumatically to silos for further utilization in cement manufacturing. Bottom ash shall be used as bed material in the AFBC boiler. Municipal Solid waste from plant and colony shall be segregated and separated as combustible and non-combustible wastes. Combustible wastes along-with spent oil shall be used as fuel in the kiln. Non-combustible wastes shall be land filled for Composting and non-compostable waste shall be sold to authorized recycling vendors. Sewage sludge shall be used as manure. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.	All the bag filter dust, raw mill dust, Coal dust, clinker dust and cement dust from pollution control devices are being recycled and reused in the process and used for cement manufacturing. Combustible wastes are used as fuel in the kiln and non combustible wastes are used for land filling at identified sites. Spent oil and batteries are being sold to authorized recyclers only.
10	All the fly-ash shall be utilized as per Fly-ash Notification, 1999, subsequently amended in 2003. Efforts shall be made to use fly-ash maximum in manufacturing Pozollona Portland Cement (PPC)	Fly ash is being utilized as per the Fly-ash Notification, 1999, subsequently amended in 2003. We use 18% to 20% of fly ash in the manufacturing of Pozollona Portland Cement (PPC)
11	Efforts shall be made to use low grade lime, more fly-ash and solid waste in the cement manufacturing.	The dust collected in the bag filters are being recycled and reused in cement manufacturing. 18% to 20% of fly ash is used in the manufacturing of PPC. Moreover, incidental limestone is being used to produce clinker which is a low-graded lime generated during levelling of our mines.
12	An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provisions shall be made accordingly.	Provisions will be made to use high calorific hazardous waste in the cement kiln. Planning has been finalized and Authorisation of MSPCB for the use of Bio medical waste, has already been received along with NOC of State Pollution Control Board Sikkim. Enclosed herewith.
13	As proposed, green belt shall be developed in at least 20 ha. (40%) out of 55.54 ha. area in and around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions, in consultation with local DFO.	Green belt is being developed around the plant area as per CPCB guidelines and in consultation with the local DFO/Forest department. Local plant species like Khokan, Champa Bokul together with Mango, Lichi, Neem etc. are planted. Photographs of the Green Belt developed are enclosed herewith.
14	All, the recommendations made in the Charter on Corporate Responsibility, for Environment Protection (CREP) for the Cement Plants shall be implemented.	All, the recommendations made in the Charter on Corporate Responsibility, for Environment Protection (CREP) for the Cement Plants are being followed.
15	The Company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilet, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Proper housing with all necessary infrastructure and facilities such as fuel for cooking, toilets, safe drinking water, medical health care etc. were provided to the construction labours within the site. The temporary structures of the housing were removed after the completion of the project.
16	All the issues raised during the Public Hearing/Public Consultation meeting and commitments made shall be satisfactorily implemented.	All the issues raised during the Public Hearing/Public Consultation meeting and commitments were satisfactorily implemented and the report had already submitted to MOEF&CC, Shillong.

17	<p>Ref. File No J-11011/2007-1A.II(1), Government of India, Ministry of Environment Forest and Climatic Change (Impact Assessment Division, Subject: Cement Plant (Cement 3000TPD &amp; Clinker 2500TPD) coal based Captive TPP (10MW) near 116 Km Stone, NH 44 Village Mynkree PO Khliehriat, Jaintia Hills, Meghalaya by M/S Hills Cement Company Ltd Amendment in Environment Clearance for prevention of Acid mine Drainage (AMD) by virtue of Recommendation of NGT Committee in the Master of Threat to life arising out of coal mining in South Garo Hills District vs Meghalaya &amp; Ors in OA No 110(THC)/2012 OA No 73/2014, OA No 13/2014, OA No 186/2014 and OA No 287/2017 etc</p> <p>Recommendation: Storage areas/stockpiles for coal in the unit shall be covered and shall have impropious flooring. Garland drains shall be provided around the storage area /stockpiles to arrest the seepage water from coal yard. The seepage water thus collected shall be treated to meet industry specific/general discharges norms for water quality as applicable. In this regard the compliance status shall be furnished to the regional Office periodically along with the six monthly compliance reports.</p>	<p>Following action have been taken by us in response of this Amendment in Environment Clearance for provision of AMD.</p> <ol style="list-style-type: none"> <li>1 Floor of the coal yard is made of concrete.</li> <li>2 The coal yard is surrounded with proper drainage system for the passage of water.</li> <li>3 Nutralising Pits provision has been undertaken for water treatment.</li> </ol>
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