



Dated: 02/07/2018

To
 The Ministry of Environment & Forests & Climate Change
 North Eastern Regional Office (NEZ)
 Law-u-sib, Lumbatngen, Near MTC Workshop
 Near NTC Workshop, Shillong-793021

RO(I)

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Sub: Six monthly compliance of environment clearance letter of M/s Goldstone cements Ltd, Vill: Musiang Lamare (old), Khliehriat, East Jaintia Hills, and Meghalaya-793200

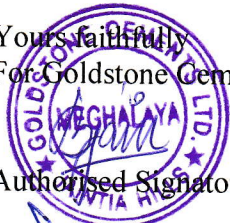
Ref: Environment Clearance letter No:-J-11011/851/2008-IA II(I) dated 30.09.2010

Dear Sir,

With the matter as cited in the subject, we would like to submit the Half Yearly Compliance report for the period 1.07.2017 to 31.03.2018 on Environmental Stipulations for our Cement Plant along with Captive Thermal Power plant located at Vill Musiang Lamare (old),Khliehriat, Dist :East Jaintia Hills, Meghalaya -793200.

Thanking You,

Yours faithfully
For Goldstone Cements Ltd



Authorised Signatory

Diary No 1102

Date 5-7-18

GOVT. OF INDIA
Ministry of Environment, Forest & Climate Change
Regional Office Shillong

CC: 1. Regional Director, Central Pollution Control Board, Regional Directorate-North East, Lower Motinagar, Shillong-793014.

2. Member Secretary, Meghalaya State pollution Control Board, "ARDEN" Lumpyngngad, Shillong-793014, Meghalaya.

Enc:-

1. Environmental Report from Third Party for the period 01.04.2017-31.03.2018
2. Environmental Statement (Form V) for the Period 02.07.2016-31.03.2017

COMPLIANCE REPORT (HALF YEARLY) from 1st Oct 2017 to 31th March 2018. ON ENVIRONMENTAL STIPULATION OF CEMENT PLANT (CLINKER, 1.65 MTPA; CEMENT, 2.54 MTPA) ALONG WITH CAPTIVE THERMAL POWER PLANT (1 MW) AT VILL MUSIANG LAMARE (OLD), P.O.KHLIEHRIAT, DIST. EAST JAINTIA HILLS, MEGHALAYA OF GOLDSTONE CEMENTS LTD - ENVIRONMENTAL CLEARANCE VIDE MOEF LETTER NO. J-11011/851/2008-IA II (I), DATED 30.09.2010.

CONDITIONS	COMPLIANCE
<p>A. SPECIFIC CONDITIONS</p> <p>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/Nm³ by installing adequate air pollution Control system. Electrostatic precipitators (ESP) to clinker cooler, bag house raw mill/kiln and bag filters to coal mill and cement mill. Low NOx burners should be provided to control NOx emissions</p> <p>Possibilities shall be explored for the proper and full utilization of gases generated from the kiln in waste heat recovery boiler (WHRB). A feasibility report shall be prepared and submitted to the ministry and its Regional office at Shillong within 03 months from the date of issue of the letter.</p>	<p>●The Continuous Stack Monitor (Opacity Meters) is in working condition and online data transferred to CPCB & MSPCB.</p> <p>●ESP (Electrostatic Precipitators) for Clinker cooler, Bag house/Bag filters for Raw Mill / Coal Mill & other pollution control equipments were already installed in plant to keep SPM below 50 mg/Nm³</p> <p>Hot gases generated from kiln are required for drying out moisture in Raw Mill and Fuel. Hence Klin waste heat is being utilized partially in Raw Mill and partially in Coal Mill to meet our operational requirement. Some heat is lost in clinker cooler.</p> <p>We have explored the Cement plant in the Vicinity and none of them have installed Waste Heat Recovery Plant. We are discussing with AKB Consultants for feasibility of Waste Heat Recovery Plant.</p>
<p>The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November 2009 shall be followed.</p>	<p>The same is being followed during operation of plant. Ambient air quality monitoring is being done through 3rd party (Recognized laboratory). Ambient air quality parameters are found to be within the limit for all the parameters. (Details attached as per Annexure-I)</p>
<p>Secondary fugitive emission shall be controlled and shall be within the prescribed limits and regularly monitored. Guidelines / Code of practice issued by the CPCB in this regard should be followed.</p>	<p>All material transfer points are provided with Bag filters to control fugitive emission.</p> <p>Guideline / Code of practice issued by the CPCB is being followed during operation of plant. Regular monitoring for control of secondary fugitive emission under prescribed limit is being done.</p>
<p>Effort 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 should be transported in the closed containers only and shall</p>	<p>Currently this Practice is not done in any plant of North East. Fly Ash is only received in bags & Transported via wagons (BCN) to NE States .From railway yard, Fly Ash further transported by trucks to cement bags is completely covered by tarpaulin on top. There is no over loading in the trucks. Provision of regular water</p>



	not be over loaded. The company shall have separate truck parking area. Vehicular emissions should be regularly monitored.	spray on haul roads and stock yard is being practiced. Treated water in DM plant is reused fully for water suppression in haul roads. Company has made a provision for separate truck parking yard.
vi	Total water requirement for cement and captive power plant shall not exceed 2,370 m ³ / day. All the treated wastewater shall be recycled and reused in the process and / or for dust suppression and green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'Zero' discharge should be adopted	Total water requirement is much below the stipulated limit of 2,370 m ³ / day as our Plant has been designed as per close circuit arrangements for cooling water. Company has adopted ZERO discharge of waste water.
vii	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	We are constructing a reservoir to collect overflowing stream water. This reservoir will be connected to our main central reservoir of 14 lac liters. Work has started but due to monsoon progress is slow. A larger size reservoir is also being planned and currently excavation of the area is being taken up.
viii	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional office at Shillong, SPCB and CPCB.	We are not generating any process effluent as the process water required for the cooling of bearing in cement plant is given treatment of cooling and sedimentation and entirely recycled. Effluent from DM plant is treated in a neutralization pit and treated water is reused entirely for dust suppression in haul roads. Subsurface water quality has been analyzed and report is submitted for your ref
ix	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. Spent oil and batteries shall be sold to authorized recyclers / re-processors only.	All the dust collected through pollution control equipment is either raw material or cement dust. Those are collected and recycled in a closed loop.
x	All the fly ash shall be utilized as per fly ash Notification, 1999 subsequently amended in 2003. Effort shall be made to use fly ash maximum in making Pozzolana Portland Cement (PPC).	There will be maximum use of fly ash during making of PPC. Utilization of fly ash will be as per said Notification. Fly ash generated in our captive power plant is totally reused in the cement plant. About 20-30% fly ash will be maintained in our product
xi	Effort shall be made to use low-grade lime, more fly ash and solid waste in the cement manufacturing.	Low grade limestone / Dolomite is blended with high quality grade lime time to time. Fly ash generated from CPP and also purchased from West Bengal NTPC is being used in manufacturing PPC cement. Possibilities of using other solid wastes in our kiln are looked into.
	An effort shall be made to use of high calorific hazardous waste	Hazardous Waste generation in Meghalaya is bare minimum. However, Hazardous



	<p>Waste is generated in other NE states like Assam may be available. Use of the Kiln shall be explored.</p>	<p>in the cement kiln and necessary provision should be made accordingly.</p>
	<p>The green belt plan to achieve 33 % area coverage is already finalized. Currently 28.87% of the Plant Area is under Green Belt Area .We are working constantly on per the planning and increasing the area accordingly. . Plantation of Native species is being done in consultation of DFO.</p>	<p>As proposed, green belt shall be developed in at least 33% area in around the cement plant as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.</p>
	<p>All recommendations were considered during the design of plant and machineries and as such all the issues in this regard are complied with.</p>	<p>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants should be implemented.</p>
	<p>Being implemented.</p>	<p>All the commitments made to the public during the Public Hearing / Public consultation meeting held on 27th November 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional office at Shillong.</p>
	<p>CSR activities for the current year are being finalized and a copy of same will be submitted Via mail & Hard Copy of the same will be submitted in Regional Office</p>	<p>At least 5% of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional office at Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.</p>
	<p>Company has already constructed workers accommodations with all necessary infrastructure and facilities such as Fuel for cooking, Toilets & Bathrooms, safe drinking water, medical health care etc.</p>	<p>The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.</p>
	<p>Stipulations mandated in the CTE and CTO are adhered to fully.</p>	<p>B. GENERAL CONDITIONS The project authorities must strictly adhere to the stipulations made by the Meghalaya State Pollution Control Board and the State Government.</p>
	<p>There will be no any expansion or modifications without prior approval of MoEF.</p>	<p>No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of</p>

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iii	<p>Environment and Forests.</p> <p>The gaseous emissions from various process units shall confirm to the load / mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.</p>	<p>Our newly commissioned unit with more sophisticated technologies is being carried out with the new standards of emission for cement industries, including local standards.</p>
iv	<p>At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO₂ and NO_x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional office at Shillong and the SPCB/CPCB once in six month.</p>	<p>At present, monthly monitoring of ambient air quality is being carried out with the help of recognized laboratory.</p> <p>Online emission monitoring system is installed in all the major stacks. Compiled data are submitted to MOEF&CC, CPCB and MSPCB once in six months.</p>
v	<p>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.</p>	<p>Treated wastewater from DM plant is used entirely in dust suppression measures. Process water requires for cooling of bearing in the cement plant are cooled, treated and recycled fully.</p>
vi	<p>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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).</p>	<p>Care has already been taken during project planning and ordering of equipment. Noise level is monitored and being found within the prescribed limit.</p>
vii	<p>Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.</p>	<p>The health care centre is already there in our Plant Campus and already one trained and experienced Nurse & a Chemist is appointed with essential medicine for health surveillance regular basis and for record maintaining. Moreover we are planning to organize a Health Camp in the upcoming Months for all the workers in Plant</p>
viii	<p>The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.</p>	<p>A catchment reservoir to collect over flowing stream water is being constructed. This will be connected to our main plant reservoir. More such systems are being planned to harvest rain water and recharge ground water table. A central reservoir of 14 lac liters is already constructed and nearby roof has been connected to the same.</p> <p>More rain water harvesting structures are being planned and will be executed in future.</p>



ix	<p>The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.</p>	<p>We are working on the implementation of the conditions given in EIA/EMP</p>
X	<p>As proposed, Rs 25 Crores and Rs 1.80 Crores shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of environment & Forests as well as the state government. An implementing all the conditions stipulated herein shall be submitted to the Regional office of the Ministry at Shillong .The Funds so provided shall not be diverted for any other purpose</p> <p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>Noted and shall be implemented.</p>
Xi	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Shillong. The respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; PM 10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters. Indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Has been implemented. Copy was already submitted to the MOEF &CC.</p>
xii	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF at Shillong. The respective Zonal office of CPCB and the SPCB. The criteria pollutant levels namely; PM 10, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters. Indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>A BETA version of Company's website can be viewed at http://globalsoftservices.com/gsc/</p> <p>Six monthly monitoring data are being Submitted to MoEF&CC, CPCB and MSPCB.</p>



<p>iii</p> <p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional office of MOEF, the respective Zonal office of CPCB and the SPCB. The Regional office of this Ministry at Shillong / CPCB /SPCB shall monitor the stipulated conditions.</p>	<p>Noted and being followed.</p>
<p>iv</p> <p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional office of the MOEF at Shillong by e-mail.</p>	<p>Environmental Statement (Form V) for the year 2016-17 is Submitted Copy Attached for your reference before September 30, 2017. The process shall be followed for each FY.</p>
<p>v</p> <p>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 SPCB and may also be seen at website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local news papers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Shillong.</p>	<p>Has been implemented.</p>
<p>vi</p> <p>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.</p>	<p>Followed the norms and land development work completed accordingly.</p>

or Goldstone cements Ltd.



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