

Six Monthly Compliance Status of Environment Clearance for Cement Plant (2400 TPD) at Village Lumshnong, Meghalaya – January to June 2014

Ref.: Environmental Clearance no. SEIAA/Project-6/2008/23 dtd. 16.03.10.

Dear Sir,

Kindly find point wise six monthly compliance status of the Specific and General Conditions stipulated in the Environmental Clearance issued to Cement Manufacturing Company Limited are as under:

SL No.	Conditions	Compliance Status
A. SPECIFIC CONDITIONS		
i)	High Efficiency Electrostatic Precipitators (ESPs) shall be installed to limit particulate emission to 50 mg/Nm ³ .	Cement Manufacturing Co. Ltd. (CMCL) has installed High Efficiency Electrostatic Precipitators (ESPs) in the plant to limit particulate emission to 50 mg/Nm ³ .
ii)	Dust extraction and suppression systems along with water sprinklers shall be provided for controlling fugitive dust during transportation, in coal storage area and other vulnerable areas of the Plant.	CMCL has provided dust extraction and suppression systems along with water sprinklers for controlling fugitive dust during transportation, in coal storage area and other vulnerable areas of the Plant and regular inspection is done.
iii)	The treated effluents shall be re-circulated and reused within the plant area. There shall be no waste water discharge outside the plant boundary.	All the treated effluents are re-circulated / re-used for industrial cooling and processing and the left over is used in greenbelt development and road dust suppression within the plant area. No waste water is discharged outside the plant boundary.
iv)	Rainwater harvesting shall be practiced. A detailed scheme for Rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority /State Ground Water Board within Six months of receipt of Environmental Clearance.	The Rain Water falling in the open areas and roof tops of plant & township buildings is regulated through drains to Raw water reservoirs.
v)	The stack emission from various sources shall not exceed 50 mg/Nm ³ .	The pollution control equipments are already installed in the plant to reduce the stack emission from various sources so that it does not exceed 50 mg/Nm ³ .
vi)	Bag House / Filters shall be provided to control the fugitive emission during loading and unloading of raw materials / intermediate and finished products.	Bag House / Filters have been provided to control the fugitive emission during loading and unloading of raw materials / intermediate and finished products.
vii)	The project proponent should store all the raw materials in covered sheds to avoid spillage and safety to environment as well as to protect the quality of the raw materials.	CMCL stores all the raw materials (excluding limestone) in covered sheds to avoid spillage and safety to environment as well as to protect the quality of the raw materials.
viii)	The ambient air quality monitoring stations shall be set up	The ambient air quality monitoring

	as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) and additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated.	stations have been set up as per statutory requirement in consultation with the Meghalaya State Pollution Control Board (MSPCB) for the existing operating plant and additional stations shall be installed, in the downwind direction as well as where maximum ground level concentrations are anticipated in consultation with MSPCB. The regular monitoring is done.
ix)	Total water requirement shall not exceed 900 m ³ / day. No waste water shall be discharged outside the premises and zero discharge shall be ensured. No Surface runoff from factory premises shall either reach / contaminate Um-lunar River or any other stream flowing near the industrial location.	Total water consumption does not exceed 900 m ³ / day. The industrial liquid effluent is treated in water treatment plant and re-circulated. Industrial and town ship residential sewage is treated in sewage treatment plant (STP) and treated water is utilized for dust suppression & irrigation of green belt. No water is discharged outside the plant premises and zero discharge is maintained. Surface runoff from factory and township is channeled and regulated into water reservoirs. No surface runoff from the factory premises either reaches / contaminates Um-lunar River or any other stream flowing near the industrial location.
x)	Permission for drawing water should be obtained from the concerned authority. Appropriate measures should be taken against pollution of nearby streams and rivers.	Permission for drawing water was obtained from State Irrigation Deptt. Vide letter no. AGRI/IRRI-110/96/2004-05/80 dtd. 15 th Sept., 2004. Appropriate measures are taken to prevent pollution of nearby streams and rivers.
xi)	No natural water sources shall be obstructed due to mining and other operations of the Plant and drains shall be regularly de-silted.	No natural water sources are obstructed due to mining and other operations of the Plant and drains are regularly de-silted for proper water flow.
xii)	The project proponent shall get the optimum functioning of the environmental protection equipment certified by a technical institution of repute.	CMCL shall ensure optimum functioning of the environmental protection equipment duly certified by a technical institution of repute.
xiii)	The project proponent shall ensure that the installed sewage treatment plant continues to function uninterruptedly and treated sewage is utilized for green belt development.	CMCL continuously monitors the installed sewage treatment plant to keep it functioning condition. Treated sewage is utilized for green belt development and dust suppression purposes.
xiv)	The project proponent shall transport raw material and industrial product through covered means.	CMCL ensures that transportation of raw materials and industrial products are done through covered means.
xv)	Thirty three percent of the 35 Ha core project areas shall be developed as green belt by the project proponent as per the guidelines of Central Pollution Control Board to mitigate the effect of fugitive emission, incurring the expenditure as stated by the project proponent. The program ought to be completed within 5 years from the	<ul style="list-style-type: none"> • Thirty three percent of the 35 Ha core project area is being developed as green belt by CMCL as per the guidelines of Central Pollution Control Board. • Development of GREEN BELTS in &

date of issue of prior Environmental Clearance. Suitable species in respect of the same for the stated area shall be approved by a suitable authorized representative of the State Government in the Forest Department.

- around the plant & Colony
- Cement Manufacturing Company Limited (CMCL), has been initiating various steps to make its premises the greenest amongst various cement plants in the north east. In a significant step towards its green initiative, the Cement producing unit has planted as many as 3480 saplings of native trees on a single day on 05.06.2014. Under the guidance of Dr. Shantanu Kumar Dutta, Environment Engineer, Central Pollution Control Board, **3480 saplings of 30 native species trees** have been planted for developing an 'Environmental Protection Forest' within its premises by adopting Akira Miyawaki Method of Environment Forest Plantation. Akira Miyawaki model of plantation aims to 'plant a dense forest' for environmental protection instead of 'planting a tree', which will act as large sink for Carbon Di Oxide and shall help in Noise Pollution Control.
- The tree species planted are Australian Pine, Rocket Pine, Camelia, Bougenvelia, Bokul, Cycus, Phoneix, Tita sapa, Pooma, Neem, Agar, Sissoo, Rubber Tree, Nahar, Orange, Guwava, Jamun, Silver Oak, Bottle Brush, Arjun, Kathal, Lataku, Bokul, Holok, Curry patta, Gulmohor, Night Jasmine, Aclypha.



xvi)	Measures shall be taken to prevent impact of particulate emission / fugitive emission, if any, from the proposed plant on the surrounding forest areas depicted in the land use study.	No such impact of particulate emission / fugitive emission has been recorded on the surrounded forest areas depicted in land use study.
xvii)	The project proponent shall take all such measures as are necessary in the matter of utilization of limestone towards ensuring that no unscientific extraction of limestone is encouraged in the process.	CMCL has taken all such measures towards ensuring that no unscientific extraction of limestone is encouraged.
xviii)	The project proponent shall take all precautionary measures for conservation and protection of local flora and fauna and action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the Wildlife Division of the State Forest Department. Necessary fund for implementation of the Action Plan shall be made and included in the project proposal.	A letter regarding Permission and recommendation for conservation of flora & fauna was received from office of the Principal Chief Conservator of Forests & HOEF, Meghalaya, vide letter no. MFG. 16/50/CMCL/Vol.I/11,031,dated: Shillong, the 28 th of November, 2013. The implementation work is under process.
xix)	A sum of Rs. 315 lakhs shall be spent towards capital expenditure as stated by the project proponent towards environment protection and a further sum of Rs. 50.60 lakhs as recurring cost annually shall be spent by the project proponent towards environmental protection.	The earmarked amounts have been spent towards procurement of Pollution Control equipment & erection and towards recurring maintenance cost of EPE & cost on monitoring environmental parameters, environmental training and awareness program as per CPCB guidelines etc.
xx)	A sum of Rs. 30 (thirty) lakhs shall be utilized by the project proponent till the project subsists towards socio-economic / eco- development activities in the area part of which shall be spent towards distribution of free medicines in the nearby villages. A portion of the sum (5%) shall be set apart annually towards creation of employee's welfare fund. Details of expenditure incurred under this para shall form part of the compliance report to be submitted to the SEIAA / SEAC. Further, a comprehensive long term eco-Development plan will be prepared by the project proponent within six months of receipt of prior Environment Clearance.	Substantial expenditure has been incurred towards socio- economic / eco – development activities in the area like arranging free medical camps & distribution of free medicines for the benefit of surrounding villagers and on several CSR activities.
xxi)	The company shall provide housing for construction labour within the site with all necessary basic essential facilities such as cooking houses, sanitary toilets, water and medical health facilities.	CMCL has provided housing for construction labour within the site with all necessary basic essential facilities such as cooking gas, houses, sanitary toilets, water and medical health facilities.
xxii)	The project proponent should adopt the normal precautionary measures to curb malaria in its Health Care Centre, as exists in the corresponding set up of the State Programme through the Primary Health Centers, Community Health Centre's or Sub-Divisional Health Care as the case may be or through setting up its own health care centre unit within the factory premises with all essential medicines, etc. as the requirement under relevant Acts / Rules.	CMCL has already adopting the normal precautionary measures to curb malaria in its Health Care Centre, as exists in the corresponding set up of the State Programme through the Primary Health Centers, Community Health Centers or Sub-Divisional Health Care, within the factory premises with all essential medicines, etc. as per the requirement under relevant Acts / Rules.

B. GENERAL CONDITION

In respect of the cement Plant project the following general conditions shall be adhered to by the project proponent:-

i)	The project proponent shall strictly adhere to the stipulations of the MSPCB / State Government or any other statutory body as framed / modified from time to time.	CMCL adheres strictly to the stipulations of the MSPCB / State Government and other statutory bodies as framed / modified from time to time.
ii)	The clinker production or cement production shall not exceed the limit of 2400 tons per day.	CMCL shall ensure that clinker production or cement production shall not exceed the limit of 2400 tonnes per day.
iii)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment & Forests or their nominated authority as the case may be. In case of deviation or alteration in the project proposal from those submitted to this committee for clearance, a fresh reference shall be made to the SEAC through SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	The stipulation will be complied with in case of any proposal for change in status.
iv)	The gaseous emissions (SO ₂ , NO _x) and particulate matter levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no point of time, the emissions shall exceed the prescribed limits. Interlocking system of equipment shall be chosen such that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	<ul style="list-style-type: none"> • The emission levels are monitored regularly as per norms and they are within the stipulated levels and report is sent to MSPCB, CPCB & MoEF time to time. • Interlocking system of equipment has been provided so that in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved
v)	The industry shall undertake the following waste minimization measures : <ul style="list-style-type: none"> • Reuse by-products from the process as raw materials or as raw material substitutes in other processes. • Use closed pneumatic system for transport of fine material. • All venting systems shall be connected with dust or particulate arresting equipments. • Dust / particulate matter collected in pollution control equipments shall be reused. 	<p>CMCL undertook the following waste minimization measures:</p> <p>CMCL reuses by-products from the process as raw materials or as raw material substitutes in other processes</p> <p>CMCL uses closed pneumatic system for transport of fine material.</p> <p>All venting systems are connected with dust or particulate arresting equipments such as RABH, ESP & Bag Filters.</p> <p>All the collected dust / particulate matter from the pollution control equipments are reused.</p>
vi)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards / Central Pollution Control Board.	Fugitive emissions in the work zone environment, product and raw materials storage area are regularly monitored. The emissions conform to the limits imposed by the State Pollution Control Boards / Central Pollution Control Board.

vii)	Dust / particulate matter collected in pollution control equipments shall be reused. Spares would be maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment shall be ensured by the project proponent.	All the collected dust / particulate matter from the pollution control equipments are reused. Inventory of spares are always maintained in respect of all pollution control equipment. Maintenance and optimum functioning of the pollution control equipment is be ensured by CMCL.
viii)	The project proponent shall strictly comply with the Rules and Guidelines under Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989, as amended and The Hazardous Waste (Management & Handling) Rules, 1989 as amended from time to time. Authorization from the MSPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	<ul style="list-style-type: none"> • Noted & is complied. • Hazardous waste authorization from MSPCB already taken by vide letter no. MPCB/TB-HSM/ATH-26(2009)/2011-2012/3 Dated Shillong, the 11th August, 2011 and also the annual returns are submitted at Meghalaya State Pollution Control Board by 30th June every financial year.
ix)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be setup to carry out the Environmental Management and Environmental Quality Monitoring functions. A state of the art Chromium testing kit shall be maintained in the laboratory to test for presence of Chromium VI in the nearby flowing streams and ground water beneath the core area.	CMCL has already established Environmental Management Cell, equipped with full fledged laboratory facilities to carry out the Environmental Management and Environmental Quality Monitoring functions. A state of the art Chromium testing kit is maintained in the laboratory to test for presence of Chromium VI in the nearby flowing streams and ground water beneath the core area.
x)	A Six monthly compliance status reports shall be submitted to SEIAA / SEAC and Regional Office, Ministry of Environment & Forests, Govt. of India, Shillong apart from posting the same on the website of the company.	The stipulation is complied