

Point wise reply of Conditions Stipulated in Environmental Clearance Letter No. J-11011/638/2008- IA II (I) dated 19<sup>th</sup> December, 2008; issued from MoEF, New Delhi for Expansion of Cement Grinding Unit (3.4 MTPA to 4.6 MTPA) at Jojobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur, Jharkhand by M/s. Nuvoco Vistas Corp. Ltd. (Formerly Lafarge India Ltd. )

A. Specific Conditions		
S. No.	Conditions	Reply
i.	All the other necessary statutory clearances from the concerned Departments including 'No Objection Certificate' from the Jharkhand State Pollution Control Board shall be obtained prior to commencement of construction and / or operation.	The Consent to Operate vide letter No PC/JSR/AIR/L-17/11-/G-2442 dated 30.09.2011 had been obtained from Jharkhand State Pollution Control Board before start of the production.
ii.	Cement grinding shall be carried out in closed circuit and highly efficient bag dust collectors / bag house based on reverse pulse jet technology to raw mill / kiln shall be installed to control dust emissions. Continuous on-line monitors for particulate emissions shall be installed. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the Jharkhand State Pollution Control Board (JSPCB). At no time, the stack emissions from various sources shall exceed 50 mg/Nm <sup>3</sup> . 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 (s) is shut down automatically and reports submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly.	Cement grinding is carried out in Vertical roller mill. Closed clinker silo and highly efficient bag dust collectors / bag house have been installed to control dust emissions. Continuous on-line monitors for particulate emissions have been installed. The gaseous and particulate matter emissions from various units are conformed to the standards prescribed by CPCB. The stack emissions from various stacks are maintained to be less than 30 mg/Nm <sup>3</sup> . Interlocking facility has been provided in the pollution control equipment so that in the event of the pollution control equipment not working, the respective unit (s) shut down automatically.

<p>iii.</p>	<p>Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement in consultation with the Jharkhand SPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. Monitoring of ambient air quality shall be carried out regularly in consultation with JSPCB and on-line data shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and JSPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.</p>	<p>Ambient air quality monitoring (AAQM) stations are set up as per the statutory requirement in consultation with the Jharkhand SPCB. On-line data being submitted regularly to CPCB and JSPCB.</p> <p>Ambient air quality including ambient noise levels are being maintained below the limits prescribed by CPCB.</p> <p>Monitoring of ambient air quality for the existing plant is being carried out regularly and report is being submitted to JSPCB.</p> <p>Ambient Air Quality, Stack Monitoring Report, and Ambient noise levels are monitored every month. The Monitoring results of the same have been annexed herewith as <b>Annexure 1, 2 and 3</b> respectively.</p>
<p>iv.</p>	<p>The fugitive emissions during loading and unloading shall be suitably controlled. Bag house/filters shall be provided to control air emissions. The company shall install adequate dust collection and extraction system to control fugitive dust emissions from transfer points, hoppers, loading points, vehicular movement etc. Storage of raw material shall be in closed roof sheds. Water sprinkling arrangement shall be made in the raw material stockyard and cement bag loading areas.</p>	<p>Bag house/filters are provided to control air emissions. Adequate dust collection and extraction system has been provided at transfer points, hoppers, loading points etc., Raw materials stored in closed roof sheds. Water sprinkling being done on regular basis at raw material stockyard and at cement bag loading areas.</p>

v.	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.	CPCB Guidelines to control secondary fugitive emissions being followed.
vi.	Total water requirement after expansion from TISCO supply shall not exceed 1050 m <sup>3</sup> /day. No effluent shall be discharged from the process outside the premises and all the treated effluent shall be utilized for green belt development and other plant related activities. 'Zero' discharge shall be strictly adopted. Domestic wastewater in plant and township shall be treated in septic tanks followed by soak pit system.	Total water is supplied from TISCO under a contract. No effluent is generated from the proposed plant; the Plant is a "Zero Discharge Unit". The domestic effluent is being treated in Sewage Treatment Plant and its outlet water being used for protecting green belt and sprinkling purposes.
vii.	'Permission' for the drawl of 1050 m <sup>3</sup> /day from TISCO supply shall be obtained or if agreement is signed between M/s TISCO and M/s Lafarge, a copy of the same shall be submitted to the Ministry and its Regional Office at Bhubaneswar/CPCB/JSPCB.	The water supply is governed by Agreement between NVCL (Formely Lafarge India Limited) & TISCO. The agreement is there already for 0.5MGD of water and will be managed within. The copy of the same is being submitted along with this letter as <b>Annexure – 4</b> .  Water consumption is being managed within the prescribed limit.

viii.	The solid waste collected in different collection systems shall be recycled and reutilized in the cement plant itself. Waste lube oil and grease shall be sold to the authorized recyclers / re-processors. Domestic sludge shall be used as manure for green belt development.	No solid waste is generated from the process.  Waste lube oil and grease stored in steel drums at an identified location with concrete floor and sold to authorized recyclers.  Domestic sludge being used as manure for green belt.
ix.	As proposed, green belt shall be developed in 33 % within and around the site to mitigate the impact of air emissions as per the CPCB guidelines.	Plant already has 33 % of area as green belt. However, as a part of improvement activity, tree plantation is being carried out inside the plant, nearby villages and Government schools.
x.	Observations of the State Forest Department regarding likely impact due to expansion of the proposed plant on the surrounding Reserve forests located in SW and NE direction shall be obtained and implementation of recommendations, if any, shall be ensured.	As per the letter obtained from Forest Department, no impact has been observed on surrounding Reserve forests located in SW and NE direction due to the proposed expansion project. Copy of the same is being submitted as <b>Annexure – 5</b> .
xi.	All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) shall be followed and complied.	Recommendations of the Corporate Responsibility on Environmental Protection (CREP) being complied.

xii.	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.	The same has been complied with.
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**B. GENERAL CONDITIONS**

S. No.	Conditions	Compliance Report
1.	The project authority shall adhere to the stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government.	All stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government being followed.
2.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	We will not modify or expand the plant further, without prior approval of the Ministry of Environment and Forests.
3.	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 70 dBA (night time).	Regular monitoring of ambient noise levels is being carried out to ensure the ambient noise levels below prescribed limits. Ambient Air Quality and ambient noise levels are being monitored and the Monitoring results of the same have been annexed herewith as <b>Annexure 3.</b>

4.	Proper housekeeping and adequate occupational health programmes shall be taken up.	Proper housekeeping being maintained and adequate occupational health programmes being conducted.
5.	Rainwater harvesting measures shall be adopted for the augmentation of ground water. Besides, company must also harvest the rainwater from the rooftops and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.	Rain water Harvesting System made in Plant for recharging of aquifers and augmentation of ground water table.
6.	The company shall undertake eco-development measures including community welfare measures in the project area.	Necessary community development and welfare is being done through community participation. The company pays special attention to girls education, employment of local youth by providing mason training, contract employees family's health check-up, mobile dispensary, blood donation camps, providing drinking water, support to district administration in rural lighting etc.
7.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	Adhering to the above condition, Environmental Management Cell has been set up which is working effectively.

8.	As proposed, Rs. 525.00 Lakhs and Rs. 35.00 Lakhs/annum shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Funds being utilised judiciously to implement the conditions stipulated by MoEF as well as State Government.
9.	The Regional Office of this Ministry at Bhubaneswar / CPCB / JSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Compliance report is being submitted to all locations regularly.
10.	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.	As this was an expansion project there is no significant land development work, the expansion is done within the existing premises. Financial closure and Final approval of the project is being submitted as <b>Annexure – 6.</b>

11.	<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 Jharkhand State Pollution Control Board 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 of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.</p>	<p>We had already published the accordance of Environmental Clearance in two local newspapers and a copy of the same has been submitted along with the first half yearly compliance report.</p> <p>Copy of same is being attached as <a href="#">Annexure - 7</a>.</p>
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