



State Level Environment Impact Assessment Authority, Jharkhand

Nursery Complex, Near Dhurwa Bus Stand, P.O+P.S-Dhurwa, Ranchi, Jharkhand-834 004

E-mail: msseiaa.jhk@gmail.com; website: www.jseiaa.org

Letter No.-EC/ SEIAA / 2016-17 / 2001/ 2017/99

Ranchi, Date: 08.05.2018 .

To: **Mr. Manoj Kumar Agarwal**
(Vice President)
P.O. – Rahargora, Jamshedpur,
Jharkhand- 831 016.

Sub.: Environmental Clearance for the project “Expansion of Cement Grinding Unit of M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) from 4.6 to 6.6 MTPA at Jojobera Cement Plant at Village- Jojobera, Rahargora, Jamshedpur, East Singhbhum”- regarding.

Ref: SIA/JH/IND/18532/2017.

Sir,

It is in reference to the project “Expansion of Cement Grinding Unit of M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) from 4.6 to 6.6 MTPA at Jojobera Cement Plant at Village- Jojobera, Rahargora, Jamshedpur, East Singhbhum”- submitted by you for seeking prior Environmental Clearances (EC).

M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) has submitted application for the above mentioned proposal to MoEF & CC, Govt. of India (due to absence of SEIAA, Jharkhand) on 12.07.2016. Subsequently, the project was considered by EAC (Industry-I) during its 10th meeting held on 29th -31st August, 2016 and the committee considered the project under category B2 as per MoEF & CC OM No. J-13012/12/2013IA-II(I), dated 24.12.2013 (All standalone grinding unit listed in the schedule as category ‘B’ subject to the condition that transportation of raw material and finished product shall be primarily rough railway).

Thereafter, SEIAA / SEAC, Jharkhand was constituted as per Gazette Notification dated 09.11.2016. Thus, the file has been sent by the MoEF & CC, Govt. of India to SEIAA, Jharkhand on 19.01.17 and consideration of project under category B2.

Environmental Clearance for the same has been obtained from MoEF & CC, New Delhi vide letter no. F.No. J-11011/638/2008-IAII(I) dated 19.12.2008 and as amended on 16.03.2016. In pursuance of the fresh certificate of incorporation issued by the Registrar of companies, Mumbai name of the company w.e.f from 10.03.2017 has been changed from Lafarge India Ltd to Nuvoco Vistas Corp. Ltd.

Now, the company is proposing an expansion of Cement Grinding Unit from 4.6 to 6.6 MTPA M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) at Jojobera Cement Plant, Vill.- Jojobera, Rahargora, Jamshedpur, East Singhbhum.

The proposal was appraised by State Level Expert Appraisal Committee (SEAC) and recommended for grant of Environmental Clearance in its meeting held on **22nd 23rd February, 2018.**

Salient Features of the project

Sl. No.	Particulars	Details		
1.	Nature & size of the project	Expansion of Cement Grinding Unit from 4.6 to 6.6 MTPA at Village- Jojobera, Rahargora, Jamshedpur, East Singhbhum		
2.	Latitude	22°45'03 " to 22°45'28 " N		
3.	Longitude	86°14'41" to 86°14'56" E.		
4.	Total Plant Area	54.147 Ha		
5.	Greenbelt / Plantation Area (Ha)	18.45 Ha i.e. approx. 33% of total plant area has already been developed under greenbelt / plantation; same will be maintained & enhanced in future.		
6.	Nearest Town / City	Jamshedpur (6.5 km in NW direction)		
7.	Nearest National Highway / State Highway	<ul style="list-style-type: none"> ○ SH-6 (3.5 km in WNW direction) ○ NH-33 (8.0 km in NE direction) 		
8.	Nearest Railway Station	Tatanagar Railway Station (4 KM in WNW direction)		
9.	Nearest Airport	Ranchi Airport (112 km in NW direction)		
10.	Total cost of the project	Rs. 218.036 Crores		
11.	Cost for environment management plan	<ul style="list-style-type: none"> ○ Capital cost – Rs. 6.55 Crores ○ Recurring cost – Rs. 0.8 Crores / annum 		
12.	Water requirement (KLD)	Existing	Additional for proposed expansion	Total after proposed expansion
		1050	650	1700
		Source – JUSCO (Jamshedpur Utilities and Services Company)		
13.	Power requirement (MW)	30	15	45

		Source – TISCO (Tata Iron and Steel Company)		
14.	Man Power requirement	1137	210	1347
		Source – Unskilled / Semi-skilled – Local Area, Skilled – Oust side		

Details of the products with capacities are given in the table below :

Sl. No.	Product	Existing Capacity (MTPA)	Total capacity after proposed expansion (MTPA)
1.	PSC	4.0 (Max.)	5.5 (Max.)
2.	PPC	1.0 (Max.)	2.0 (Max.)
3.	Composite Cement	Nil	1.5 (Max.)
Total overall production		4.6	6.6

The overall production will not exceed 6.6 MTPA

In the earlier presentation discrepancies regarding distance from forest / ESZ etc were identified and the committee advised to submit the appropriate certificate accordingly

“PP was asked to submit the DCF, Elephant Project, Jamshedpur certificate regarding whether the project site is within Eco Sensitive Zone of Dalma Sanctuary or not..”

The documents related to the above mentioned discrepancies have been submitted. The documents were examined and found to be satisfactory. Increase in capacity after EC & use of oxygen & emission of Green House Gas (GHG) discussed in details & PP agreed to measure data on continuous basis, create oxygen technics & reduce carbon foot print.

State Level Environment Impact Assessment Authority (SEIAA), Jharkhand in its meeting held on 17.04.2018 discussed the project proposal along with recommendations made by SEAC and decided to grant EC to the project.

Following the decision of SEIAA, as mentioned above, Environmental Clearance is hereby issue to the **“Expansion of Cement Grinding Unit of M/s Nuvoco Vistas Corp. Ltd (Formerly Lafarge India Ltd) from 4.6 to 6.6 MTPA at Jojobera Cement Plant at Village- Jojobera, Rahargora, Jamshedpur, East Singhbhum”** alongwith the following conditions-

A. Specific Conditions

- I. This Environmental Clearance is valid subject to the following condition below –

That this project has-

- a. Obtained all legal rights to operate at concerned place.
- b. Complied with all existing concerned laws of the land and
- c. Complied with the decisions of SEIAA on the issue of Environmental Clearance till date.

- II. The gaseous emissions from various process units should conform to the ~~Lead~~ / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.
- III. Cement grinding shall be carried out in closed cement mill, Provision of dust extraction and pollution control systems along with minimum stack height of 45m from G.L. should be provided for control of emission from Slag Mill and Hot Gas Generator. Highly efficient Cyclone separators, Pulse Jet Bag Filters & ID Fan should be provided for Raw Material Handling Section, Ball Mill, Silo and Packing Section, Stack emissions shall be monitored at regular intervals and records maintained. The stack emission should not exceed 30 mg/Nm³.
- IV. Regular monitoring of the ambient air quality shall be carried out in and around the plant and records shall be maintained. All care to be taken to maintain the ambient air quality standards as per GSR 826 (E) dated 16.11.2009. 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, PM_{2.5}, SO₂ and NO₂ are anticipated in consultation with the SPCB, Data on ambient air quality and stack emission shall be regularly submitted to the SEIAA and the SPCB once in six months.
- V. The unit shall install Continuous Automatic Ambient Air Quality Monitoring Station (CAAAQMS) for the project.
- VI. Finished cement should be collected in silo and packaging should be done through pneumatically controlled system. Suction system should be installed at packing section to minimize fugitive emission.
- VII. All vibrating screens, storage bins will be adequately covered. Covered storage yards shall be provided for raw materials. Closed unloading of raw materials and closed conveyor belt for transportation with bag filter at transfer points should be provided. Suction head should be provided at all transfer points.
- VIII. Adequate dust suppression and extraction system should be provided in material storage areas, material unloading and transfer points for controlling fugitive emission. Fugitive dust emissions from ball mill and storage areas shall be collected in bag filters and recycled back to the process. Water sprinkling arrangement shall be made in the raw material stock yards and other high dust potential areas.
- IX. Water required for proposed expansion shall be met from ground water supply as proposed. Groundwater shall be abstracted as per permission of the competent authority as per The Central Ground Water Resources / State Ground Water Resources (Management, Control and Regulation) Act, 2005.
- X. Process effluent discharge is not permitted. No liquid effluent shall be generated by adoption of dry grinding process.
- XI. Clinker manufacturing / heating is not permitted under this environmental clearance. Clinker and fly ash shall be stored in the closed silos and gypsum and slag in covered shed.
- XII. All the bag filter dust, raw meal dust, coal dust, clinker dust and cement dust from pollution control devices should be recycled and reused in the process used for cement manufacturing. Spent oil and batteries should be sold to authorized recyclers / reprocessors only. Hazardous waste generated to be disposed of as per provisions of Hazardous Wastes (Management and Transboundary Movement) Rules, 2016.

- XIII. Adequate provisions should be made for harvesting rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
- XIV. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 12500 (as stated in previous environmental clearance vide no. 89/EN/T-II-I/037/2015 dated 14.01.2016) to be planted and maintained in the greenbelt area of 44 acres. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.
- XV. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (night time).
- XVI. Asphalting/concerting of reads and water spray all around the stockyard and loading/unloading areas in the cement plant shall be carried out to control fugitive emissions. Regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul road, loading and unloading points, transfer points and other vulnerable areas. It shall be ensured that the ambient air quality parameters conform to norms prescribed by the Central Pollution Control Board in this regard.
- XVII. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement, Provision of separate pathway for entry and exit of vehicles should be considered, Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises.
- XVIII. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- XIX. Adequate measures to adopted to ensure industrial safety. Proper fire detection & protection systems to provided to control fire and explosion hazards.
- XX. All the recommendations mentioned in the Corporate Responsibility for Environmental Protection (CREP) guidelines for Cement Plants shall be followed and complied.
- XXI. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- XXII. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical break-up shall be prepared and submitted, Implementation of such program shall be ensured accordingly in a time bound manner.

B. General Condition

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed project.
- ii. Prior Consent to Establish (NOC) for the proposed project must be obtained from JSPCB before Commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.

- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended in the EIA / EMP. Further the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply, sanitation program for local school and health care etc.
- iv. All the conditions, liabilities and legal provisions contained in the FC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- v. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environment sanitation should be ensured for the workers.
- vi. The project proponent should make financial provision in the total of the project for implementation of the environment safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the condition stipulated by the SEIAA, Jharkhand along with the implementation schedule for all the condition stipulated herein. The funds so provided should not be delivered for any other purpose.
- vii. No further expansion or modification in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, Jharkhand in the case of any changes in the scope of the project, the project would required a fresh appraisal by the SEIAA, Jharkhand.
- viii. The Jharkhand Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interoperation shall be submitted to the JPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, Jharkhand and Regional office of MoEF & CC, Ranchi.
- ix. The State Level Environment Impact Assessment Authority, Jharkhand reverse the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bund and satisfactory manner.
- x. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, Jharkhand and copies of the clearance letters are available with the Jharkhand State Pollution Control Board and may also be seen at Website of the SEIAA, Jharkhand. 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.
- xi. 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. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂ and NO₂ (ambient levels as well as stack emissions) of critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of company in the public domain.
- xii. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, Jharkhand, the date of financial closure and final approval of the project by the

concerned authorities and the date of commencing the land development work/project implementation.

- xiii. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.

Sd/-

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No.-EC/SEIAA/2016-17 /2001/2017/99

Dated: 08.05.2018.

Copy to:

1. Principal Secretary, Department of Forests, Environment & Climate Change, Govt. of Jharkhand.
2. Deputy Commissioner, District- Jamshedpur, Jharkhand.
3. Divisional Forest Officer, Jamshedpur, Division, Jamshedpur, Jharkhand.
4. Director IA Division, Monitoring Cell, MoEF and Climate Change, Indira Paryavaran Bhavan, Jorbag Road, Aliganj, New Delhi - 110003
5. District Mining Officer, District- Jamshedpur, Jharkhand.
6. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
7. Member Secretary, Jharkhand State Expert Appraisal Committee, Ranchi.
8. Website.
9. Guard file.

Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

