

File No. J-11011/638/2008-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
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Dated: 16th March, 2016

To

✓ **M/s Lafarge India Pvt. Ltd.**
Jojobera Cement Plant,
P.O-Rahargora, Jamshedpur
Jharkhand-831016.

Subject: Expansion of Cement Grinding unit (3.4 MTPA to 4.6 MTPA) located at Rahargora, Jamshedpur Dist, Jharkhand by M/s Lafarge India Pvt Ltd. – Amendment in environmental clearance for change of product mix without changing the overall production of 4.6 MTPA regarding.

Sir,

This has reference to your letter No. LIPL/JOJO/1/2015 dated 16th February, 2015 regarding subject mentioned above

2.0 It has been noted that Environmental Clearance for the project of 4.6 MTPA Standalone Grinding Unit at Rahargora, Jamshedpur Dist, Jharkhand by M/s Lafarge India Pvt, Ltd, was accorded by the Ministry vide letter of even number dated 19.12.2008. The clearance was granted to produce 3.2 MTPA of Portland Slag Cement (PSC) and 1.4 MTPA of Portland Pozzolona Cement (PPC) with over all cement production capacity of 4.6 MTPA.

3.0 It has been explained that as part of waste utilization, keeping in view of the availability of slag from steel plant and also market conditions, Lafarge India Pvt.Limited proposes to increase PSC production from 3.2 MTPA to 4.0 MTPA (max) and reduce PPC production from 1.4 MTPA to 1.0 MTPA (max) with overall production at 4.6 MTPA.

4.0 It has been mentioned that the change of product mix will result in the following advantages.

- i. Addition of slag to an extent of 45 % will result in decrease of clinker consumption to an extent of 45 %. When PSC production increases from 3.2 to 4.0 MTPA, slag (waste) consumption will increase from 1.90 To 2.40 MTPA. thus clinker of about 0.50 MTPA is saved
- ii. Saving of clinker of 0.50 MTPA will be directly result in saving of 0.075 MTPA of coal
- iii. Saving of Clinker and coal, will result in reduction of CO₂ gas (green house gas) generation of about 0.40 MTPA
- iv. No additional/change of machinery is involved.
- v. No capital cost is involved



5.0 In view of the advantages, as mentioned above it has been requested to issue amendment for environmental clearance for change in cement product mix as shown below:


	MTPA	
	Present Production	Proposed change of Product mix
PSC	3.2	4.0 (max)
PPC	1.4	1.0 (max)
Total	4.6	Over all production will not cross 4.6 MTPA

6.0 The above proposal was considered by the Expert Appraisal Committee (Industry-I) during its 35th meeting held on 26th -27th March, 2015 and 47th Meeting held on 3rd -4th September, 2015 ^{and} recommended the proposal for amendment in the Environmental Clearance.

7.0 The Ministry of Environment, Forest and climate change accepted the recommendation of EAC(I) and hereby decided to accord amendment in Environmental Clearance letter No. J-11011/638/2008-IA.II(I) dated 19th December, 2008 for production of 4 MTPA (max.) of Portland Slag Cement and 1 MTPA (max) of Portland Pozzolona Cement and the over all production in any case should not exceed 4.6 MTPA.

8.0 The company shall obtain fresh Environment Clearance in case of any change in the scope of the project.

This issues with the approval of the competent Authority.


16/12/2016
(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Environment, Government of Jharkhand.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Additional Principal Chief Conservator of Ministry of Environment, Forest and Climate Change, Regional Office (ECZ), Bungalow No. A-2, Shyamali Colony, Ranchi - 834002
4. The Chairman, Jharkhand State Pollution Control Board, Town Administrative Building, HEC Dhurwa, Ranchi-824004
5. Guard File / Record File/Monitoring file


(Dr. Satish C. Garkoti)
Scientist 'F'

Kind Attn. Mr. Abhish Khiljani:

F. No. J-11011/638/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668

Dated 19th December, 2008

To,

✓ The Vice President, Jojobera Cement Plant
M/s Lafarge India Pvt. Ltd.
P.O. Rahargora, Jamshedpur
Jharkhand

E-mail : jmenviron@hotmail.com ; Fax No. : ??

Subject : Expansion of Cement Grinding Unit (3.4 MTPA to 4.6 MTPA) at Jijobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur, Jharkhand by M/s Lafarge India Pvt. Ltd. - Environment clearance req.

Ref. : Your letter no. nil dated 30th July, 2008.

Sir,

This has reference to your letter no. nil dated 30th July, 2008 alongwith Form I, Pre-feasibility Report, draft Terms of References and EIA/EMP and subsequent clarifications furnished by you vide your letter dated 10th November, 2008 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for the expansion of Cement Grinding Unit (3.4 MTPA to 4.6 MTPA) at Jijobera Cement Plant, Village Jojobera. P.O. Rahargora, Jamshedpur, Jharkhand by M/s Lafarge India Pvt. Ltd. Total project area is 63 ha and proposed expansion will be within the existing plant premises. No additional land will be required. No national park, wild life sanctuary or biosphere reserve is located within 10 km radius of the project site. Patches of reserve forests fall in SW and NE direction. No rehabilitation and re-settlement is involved. Total cost of the proposed expansion is Rs. 319.30 Crores.

3.0 New vertical roller mill will be installed. Proposed expansion will involve increase in the production capacity of Portland Slag Cement (PSC) from 2.0 MTPA to 3.2 MTPA with no change in Portland Pozzolana Cement (PPC) production capacity (1.4 MTPA). The project is environment-friendly as it will help in bulk utilization of slag in eco-friendly way produced by M/s Tata Steels Ltd. while manufacturing Portland Slag Cement (PSC). Clinker (1.275 MTPA) will be sourced from own Sonadih Cement Plant and stored in closed Silo. Slag (3.0 MTPA) will be sourced from adjacent Tata Steel and stored in covered slag shed. Gypsum (0.135 MTPA) will be procured from Rajasthan and stored in covered slag shed. Clinker, Gypsum and Slag will be grounded to required fineness and mixed in proper proportions to produce Portland Slag Cement. Fly ash will be mixed instead of slag for manufacture of Pozzolana Portland Cement.

4.0 Cement grinding will be carried out in closed clinker and will have a highly efficient bag dust collectors/bag house based on reverse pulse jet technology to control dust emissions from the expansion line within 50 mg/Nm³. Fugitive emissions will be controlled by water sprinkling. Total water requirement after expansion from TISCO supply will be 1,050 m³/day. No effluent will be generated from the proposed plant. No solid waste will be generated as the entire material will be sold as final product.

5.0 All the stand-alone grinding units are kept in Category 'B' under S. N. 3 (b) of EIA Notification, 2006. Due to absence of SEAC/SEIAA in Jharkhand, the proposal is being considered at Central level.

6.0 After considering the facts mentioned above and with due diligence, the Ministry of Environment and Forests hereby categorizes the project in category B-2 requiring no EIA/EMP and Public Hearing/Consultation and accords environmental clearance under the provisions of EIA Notification, 2006 subject to strict compliance to the following specific and general conditions :

A. SPECIFIC CONDITIONS :

- 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.
- ii. Cement grinding shall be carried out in closed clinker 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/Nm³. 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.
- iii. 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.
- iv. 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 stock yard and cement bag loading areas.
- 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.
- vi. Total water requirement after expansion from TISCO supply shall not exceed 1,050 m³/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.
- vii. 'Permission' for the drawl of 1,050 m³/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.

- 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/reprocessors. Domestic sludge shall be used as manure for green belt development.
- 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.
- 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.
- xi. All the recommendations of the Corporate Responsibility or Environmental Protection (CREP) shall be followed and 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.

B. GENERAL CONDITIONS :

- i. The project authority shall adhere to the stipulations made by Jharkhand State Pollution Control Board (JSPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. 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).
- iv. Proper house keeping and adequate occupational health programmes shall be taken up.
- v. Rain water harvesting water measures shall be adopted for the augmentation of ground water. Besides, company must also harvest the rainwater from the roof tops 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.
- vi. The company shall undertake eco-development measures including community welfare measures in the project area.
- vii. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- viii. 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.

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- ix. The Regional Office of this Ministry at Bhubaneswar / CPCB / JSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- x. 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.
- xi. 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 <http://envfor.nic.in>. 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.

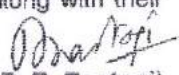
7.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhopal.

8.0 The Ministry may revoke or suspend the clearance if implementation of any of the above conditions is not satisfactory.

9.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

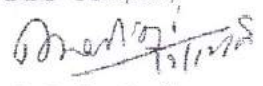
10.0 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

11.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Director

Copy to:-

1. The Secretary, Department of Environment, Govt. of Jharkhand, Jharkhand.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. Chairman, Jharkhand Pollution Control Board, Jharkhand, Town Administrative Building, H.E.C., Dhruwa, Raanchi - 824004, Jharkhand.
4. The Chief Conservator of Forests (Eastern), Regional Office (EZ), A/3, Chandrasekharpur, Bhubaneswar - 751 023, Orissa.
5. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell
8. Guard File.
9. Record File.


(Dr. P. B. Rastogi)
Director