

F. No. J-11011/751/2007- 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
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Dated 19th June, 2008

To,

M/s Dalmia Cement (Bharat) Ltd.
Hansalaya (11th & 12th Floors)
15, Barakhamba Road
New Delhi – 110 001.

E-mail : kcnarang@dalmiacement.com / harid@dalmiacement.com
Fax No. : 011-23313303.

Subject : Cement Plant (3.0 MTPA Cement & 2.0 MTPA Clinker) and Captive Power Plant (27 MW) at Village Govindapuram, Taluk Ariyalur, District Perambalur, Tamil Nadu by M/s Dalmia Cement (Bharat) Ltd. - Environmental clearance reg.

Sir,

Kindly refer your letter no. nil dated 6th July, 2007 alongwith project documents including Form I, draft TOR, Project Report and EIA/EMP report and subsequent clarifications furnished vide communications dated 13th September, 2007, 4th October, 2007, 25th March, 2008 and 31st March, 2008 regarding above mentioned cement project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for the Cement Plant (3.0 MTPA), Clinker Production (2.0 MTPA) and Captive Power Plant (27 MW) at Village Govindapuram, Taluk Ariyalur, District Perambalur, Tamil Nadu by M/s Dalmia Cement (Bharat) Ltd. Total project area is 506 acres. No National Park and Wildlife sanctuary is located within 10 km radius of the project. Vannankurichchi RF (9.5 km. E), Sedalaradi RF (14 km. NE), Manageri RF (13 km. ESE), Vilangudi RF (14 km, SE) are located within 15 km. of the project site. Total cost of the project is Rs. 850.00 Crores.

2.0 Ordinary and Pozzolona Portland Cement (OPC, 20 % & PPC, 80 %) will be manufactured. Limestone (7500 TPD) will be sourced from different mines located between 5-45 km. Coal (800 TPD) will be imported from Indonesia. Clinker (1710 TPD) and Gypsum (90 TPD) will be used as raw material for OPC (1800 TPD) and Clinker (4380 TPD), Fly ash (2555 TPD), Gypsum (365 TPD) will be used as raw material for PPC (7,300 TPD). Gypsum will be sourced from SPIC & Sterlite Industries, Tuticorin. Fly ash will be sourced from Mettur TPS and NLC.

3.0 Electrostatic precipitator (ESP) to cooler and captive power plant and bag house / bag filters to other plants will be provided to control gaseous emissions from different sources. Total ground water requirement will be 2,500 m³/day and have applied for the 'Permission' to SGWB / CGWA. All the treated wastewater will be recycled and reused in the process leading to 'zero'

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discharge. Dust collected from air pollution control equipments will be recycled and reused in the process. Ash from CPP will be used for manufacturing PPC. Bottom ash will be used as boiler bed material. ETP sludge will be disposed off at landfill site. Refractory bricks will be sold to outside agencies.

5.0 Public Hearing / Public Consultation meeting was held on 26th February, 2008.

6.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006, subject to strict compliance to the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. Continuous stack monitoring facilities to monitor gaseous emissions from all the stacks shall be provided and limit of SPM shall be controlled by installing adequate air pollution control system viz. Electrostatic precipitator (ESP) to cooler and captive power plant and bag house/bag filters etc. to other plants within 50 mg/Nm³ from the cement plant and 100 mg/Nm³ from captive power plant and data submitted to the Ministry's Regional Office at Bangalore, TNPCB and CPCB regularly. Raw mill, clinker and fly ash shall be stored in silos.
- ii. 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 should be followed. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points, raw mill handling (unloading, conveying, transporting, stacking), vehicular movement, bagging and packing areas etc. Asphaltting/concreting of roads and water spray all around the stockyard and loading / unloading areas shall be carried out to control fugitive emissions. Covered sheds for storage of raw materials and fully covered conveyers for transportation of materials shall be provided.
- iii. Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land.
- iv. Total ground water requirement shall not exceed 2,500 m³/day. No surface water shall be used. All the treated wastewater treated in a neutralization plant shall be recycled and reused in the cement plant for cooling purpose and/or for dust suppression, green belt development and other plant related activities etc. No process wastewater shall be discharged outside the factory premises and 'zero' discharge shall be adopted. Domestic treated effluent shall be used for green belt development within the plant and colony area.
- v. 'Permission' for the drawl of 2,500 m³/day ground water shall be obtained from the State Ground Water Board/Central Ground Water Authority (SGWB/CGWA) and all the recommendations of the SGWB/CGWA shall be followed.
- vi. All the cement dust collected from pollution control devices like ESPs, bag house, bag filters etc. shall be recycled and reused in the process and used for cement manufacturing. Fly ash from captive power plant shall be used for manufacturing Pozzolona Portland Cement (PPC). Bottom ash shall be used as boiler bed material. Refractory bricks shall be disposed off in environment-friendly manner. ETP sludge

shall be disposed off at landfill site. STP sludge shall be used as manure for green belt development. Waste oil and grease and scrapped automobile batteries shall be sold to authorized recyclers / re-processors only.

- vii. The project authorities shall adhere to the provisions stipulated in the Fly Ash Notification, 1999 as amended in 2003.
- viii. Efforts shall be made to use fly ash maximum in making Pozollona Portland Cement (PPC).
- ix. An effort shall be made to use of high calorific hazardous waste in the cement kiln and necessary provision shall be made accordingly.
- x. Efforts shall be made to use low grade lime, more fly ash and solid waste in the cement manufacturing.
- xi. As proposed, green belt shall be developed in 33 % area in and around the project site as per the CPCB guidelines to mitigate the effects of air emissions in consultation with local DFO.
- xii. All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for cement plants shall be implemented.
- xiii. Recommendation of the State Forest Department regarding impact of proposed plant on surrounding reserve forests viz. Vannankurichchi RF (9.5 km. E), Sedalaradi RF (14 km. NE), Manageri RF (13 km. ESE), Vilangudi RF (14 km, SE) shall be obtained and implemented.
- xiv. No operation of the cement plant shall be carried out till the environmental clearance for the mining project is obtained from the Ministry of Environment and Forests and a copy submitted to the Ministry's Regional Office at Bangalore.

B. GENERAL CONDITIONS :

- i. The project authority shall adhere to the stipulations made by T.N. Pollution Control Board (TNPCB) and State Government.
- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the T.N. Pollution Control Board. At no time, the particulate emissions from the cement plant shall exceed TNPCB limit. 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.
- iv. One ambient air quality monitoring station shall be installed in downwind direction. 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 and stack emissions shall be carried out regularly in consultation with TNPCB and

report submitted to the TNPCB quarterly and to the Ministry's Regional Office at Bangalore half-yearly.

- v. The company must 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.
- vi. The company shall undertake eco-development measures including community welfare measures in the project area.
- vii. 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).
- xv. Adequate rainwater harvesting measures shall be adopted to recharge the ground water.
- viii. Proper house keeping and adequate occupational health programmes shall be taken up.
- ix. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- x. As proposed, Rs.17.45 Crores and Rs. 4.85 Crores/annum shall be earmarked towards the capital cost and recurring cost/annum earmarked for environment pollution control measures and judiciously used 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.
- xi. The Regional Office of this Ministry at Bangalore / CPCB / TNPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- xii. 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.
- xiii. 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 T.N. Pollution Control Board / Committee 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 Bangalore.

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 Bangalore.

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

9.0 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.

10.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

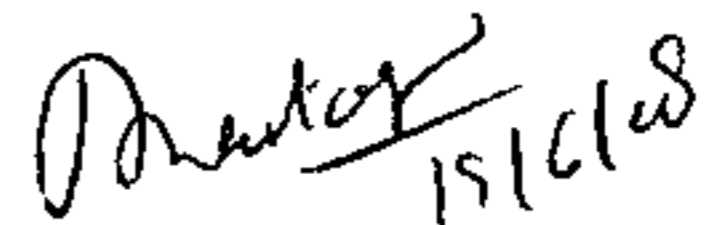
11.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.



(Dr. P. B. Rastogi)
Director

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
2. The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai – 600 032, Tamil Nadu.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E & F Wings, 7th Main Road, IInd Block, Koramangala, Bangalore- 560 034, Karnataka.
4. The Secretary (Environment), Govt. of Tamil Nadu, Fort. St. George, Chennai- 560 560, Tamil Nadu.
5. The Chief Engineer, WRO, PWD, State Ground and Surface Water, Resources Data Centre, Tharamani, Chennai - 600013, T.N.
6. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
8. Guard File.
9. Monitoring File.
10. Record File.



(Dr. P. B. Rastogi)
Director