

M. Marudharan - Chennai

**J-11011/68/2004-IA II (I)
Government of India
Ministry of Environment & Forests
IA Division**

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Paryavaran Bhavan,
CGO Complex, Lodi Road,
New Delhi-110003
Dated: April 27, 2005

To

The Vice President
M/s Dalmia Cement(Bharat) Limited
Hansalaya (11th & 12th Floor)
15, Barakhamba Road,
Post Box-364
New Delhi-110001

Subject : Expansion of cement plant by 1.32/2.2 million tonne per annum of Clinker /Cement Plant and 27 MW captive power plant at village Palanganatham, Tehsil Ariyalur in Perambalur district in Tamilnadu by M/s Dalmia Cement (Bharat) Limited- environmental clearance regarding.

Sir,

This has reference to your letter No. nil dated May 5, 2004 along with questionnaire, EIA/ EMP report and CD containing the above documents and information furnished vide your subsequent communications dated 7th July 2004 & 19th March 2005 regarding the above mentioned project.

The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for capacity enhancement by 1.32/2.2 MTPA of clinker /cement plant with 27 MW captive Power Plant by M/s Dalmia Cement (Bharat) Limited at village Palanganatham, in Perambalur district in Tamilnadu. The company is in possession of 48.80 Ha of plant area. Expansion will be carried out within the existing plant premises. No additional land is required. The limestone requirement will be met from the captive limestone mine. No forest land and displacement of people is involved. Water requirement of 2225 m³/d would be met from the Coleroon river for which permission from the state public works department has been obtained on 21st February 2004. Public Hearing Panel has considered the project in its meeting held on 18th March 2004 and NOC / Consent to Establish has been granted by the Tamilnadu Pollution Control Board on 18th March 2005. Total cost of the project is Rs.478 crores.

2.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance to the following specific and general conditions:

A. Specific Conditions

- i. The gaseous and particulate matter emissions from various units shall conform to the standards prescribed by the State Pollution Control Board. At no time the particulate emissions should exceed 50 mg/Nm³. Further, the Company may also take appropriate additional measures to improve the design and operating practices of the pollution control equipment. Trippings in kiln ESP shall be minimized. 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.
- ii. Ambient Air Quality including ambient noise levels must not exceed the standards stipulated under EPA/State authorities. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with SPCB and report submitted to the Board quarterly and to the Ministry (Regional Office at Bangalore) half yearly. Automatic stack monitoring system shall be installed in the stacks of the plant.
- iii. The company shall install adequate dust collection and extraction system to control fugitive dust emissions at various transfer points. Company shall provide Jet Pulse Bag filter at all dry material conveyor and transfer points. The dust collected from the pollution control equipment shall be recycled back into the process. 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.
- iv. The coal storage area shall be covered and water-spraying arrangements shall be made to control the fugitive emissions.
- v. The company shall install bag filters to control the emissions from the coal grinding units. Further, emissions from the stack of CPP shall be controlled by installation of ESP.
- vi. The company shall examine the use of gas as fuel in the captive power plant instead of coal and revert back to the Ministry within three months in this regards.
- vii. The company shall use fly ash upto 35% from the proposed captive power plant for manufacturing of portland pozzolana.
- viii. The company shall provide tertiary treatment system. After the tertiary treatment effluent shall be fed to dual media filter and ultra filter and then finally to RO plant. The concentrate from the RO plant shall be used for wetting of coal and arrangements shall be made for solar evaporation waste water RO rejects in the designated area.

- ix. No discharge of treated effluent shall be done outside the premises and all the treated effluent shall be utilized for green belt development and other plant related activities.
- x. As per charter on Corporate Responsibility for Environmental Protection in respect of cement industries, the company shall reduce CO₂ emission to 0.75 tonne/tonne of cement production. Action plan in this regard shall be submitted to the Ministry.
- xi. The company shall develop green belt in an of 13.0 ha in addition to 34.60 ha already brought under the green belt development. Central Pollution Control Board guidelines must be followed in planning and developing green belt and selection of species etc.
- xii. The company must harvest the rainwater from the rooftops and storm water drains to recharge the ground water.
- xiii. The Company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the TNSPCB within three months of receipt of this letter for approval.

B. General Conditions

- i. The project authority must adhere to the stipulations made by Tamilnadu State Pollution Control Board and State Government.
- ii. No further expansion or modification of the plant should be carried out without prior approval of this Ministry.
- iii. At least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the Andhra Pradesh State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.
- iv. Industrial waste water should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater should be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).

- vi. Proper housekeeping and adequate occupational health programmes must be taken up. Occupational Health Surveillance programme should be done on a regular basis and records maintained. The programme must include lung function and sputum analysis tests once in six months.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Impact Assessment/Environmental Management Plan.
- viii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.
- ix. The project authorities will provide separate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.
- x. The Regional Office of this Ministry at Bangalore/Central Pollution Control Board / State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.
- xi. The Project Authorities should 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.
- xii. The Project Proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State 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 should be forwarded to the Regional office.

3.0. The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above

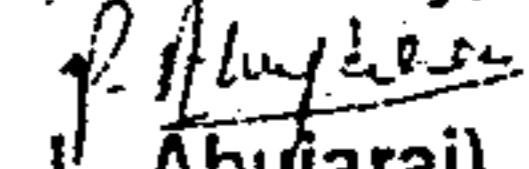
conditions will be monitored by the Regional Office of this Ministry located at Bangalore.

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

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

6.0 The above conditions will 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.

Yours faithfully,


(Dr. P. L. Ahujarai)
Director

Copy to :-

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai - 600032.
3. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wings, 7th Main Road, IInd Block, Koramangala, Bangalore-560034.
4. The Secretary (Environment), Govt. of Tamil Nadu, Fort. St. George, Chennai- 560560.
5. JS(CCI-I) 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. Guard File.
8. Monitoring File.
9. Record File.


(Dr. P. L. Ahujarai)
Director