



No. J-11015/397/2005-IA-II(M)  
Government of India  
Ministry of Environment & Forests  
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Paryavaran Bhavan,  
CGO Complex,  
Lodhi Raod,  
New Delhi-110003.

Dated 13<sup>th</sup> January, 2006

To,

Shri Y.P.Sharma,  
Manager Business Development,  
M/s. Dalmia Cement (Bharat) Ltd., Hansalaya (11<sup>th</sup> & 12<sup>th</sup> Floor)  
15, Barakhamba Road, Post Box 364,  
New Delhi-110001.

**Subject:-Expansion of Perianagalur Limestone Mine(70.01ha.) of M/s. Dalmia Cement (Bharat) Ltd. (from 0.30 MTPA to 0.80 MTPA) located in Village Perianagalur, Tehsil Ariyalur, District Perambalur, Tamil Nadu- environmental clearance - regarding.**

Sir,

This has reference to your letter No.ND/SR/PNR/ dated 7.11.2005 alongwith your application and subsequent letter No.DP:DIM:MOEF:PNR:01/2006dated 02.01.2006 on the subject mentioned above. The Ministry of Environment and Forests has examined the application. It has been noted the the proposal is for enhancement of the production capacity of mine from 0.3MTPA to 0.8 MTPA of the existing **Periannagalur Limestone Mine** with a total lease area of **70.01ha.**, consisting of wasteland ( Government land and private land ). Of total lease area, area to be excavated is 16.54 ha, 0.10 ha. is for infrastructure, 0.83 ha. is for roads, 3.29 ha. is for green belt and safety zone and 49.25 ha. under mining activity(presently). No forestland is involved. No ecologically sensitive area falls within 10 Km. radius of the mine site. The project does not involve displacement of people. Mineral transportation of 2400 TPD is by road to the linked cement plant. Working is opencast by mechanized method involving drilling and blasting. Ultimate working depth is 62 m RL. Present working depth is 68 m RL. Mining will intersect water table. The area has been declared as "semi-critical" by State Ground Water Department. Average water requirement of the mine is 160 m<sup>3</sup>/day, out of which 156 m<sup>3</sup>/day will be met from mine sump water and 4 m<sup>3</sup>/day from ground water. No solid waste generation is envisaged. Indian Bureau of Mines has approved mining plan on 31.12.2003 The Tamil Nadu Pollution Control Board has granted NOC on 2.11.2005. Public hearing was held on 26.03.2004. Life of the mine at the rated capacity is about 10 years. Capital cost of the project is Rs. 90.00 lakhs.

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2.0 The Ministry of Environment and forests hereby accords environmental clearance to the above mentioned **Perianagalur Limestone Mine** of **M/s. Dalmia Cement (Bharat) Ltd.** to expand production from **0.30 MTPA** to **0.80 MTPA** of limestone involving lease area of **70.01 ha** under the provisions of the Environment Impact Assessment Notification, 1994 and its subsequent amendments subject to terms and conditions mentioned below:

**A. Specific Conditions**

- (i) Prior approval of the CGWA shall be taken for mining below water table.
- (ii) Top soil, if any, should be stacked properly with proper slope at ear marked site(s) with adequate measures and should be used for greenbelt development.
- (iii) Check dams and siltation ponds of appropriate size should be constructed wherever required to arrest silt and sediment flows within the lease area. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained.

Garland drain (size, gradient & length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains.

- (iv) Drills should be wet operated or with dust extractors.
- (v) Controlled blasting should be practiced and only during daytime. The mitigative measures for control of ground vibrations to arrest the fly rocks and boulders should be implemented.
- (vi) Crusher should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, haulage roads, transfer points etc.
- (vii) Water sprinkling arrangements to control the fugitive dust generation from the haulage roads and to the crusher.
- (viii) Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral ore. The vehicles should be covered with tarpaulin and should not be overloaded.

- (viii) Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral ore. The vehicles should be covered with tarpaulin and should not be overloaded.
- (ix) Progressive Mine Closure Plan shall be implemented. The higher benches of the excavated void/mine pit of an area of 65.79 ha. which will be converted into a water reservoir, shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area.
- (x) Plantation should be developed in an area of 3.29ha by planting the native species around the ML boundary, roads, undisturbed area etc. in consultation with the local DFO/Agriculture Department. The density of trees should be around 2000 plants per hectare.
- (xi) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years prior to closure of mine for approval of the Ministry.
- (xii) Consent to operate should be obtained from State Pollution Control Board before expanding mining activities.

**B. General Conditions.**

- (i) No change in technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
- (ii) No change in the calendar plan including excavation, quantum of limestone, waste/OB dumps should be made.
- (iii) Ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM. Location of the ambient air quality stations should be decided based on meteorological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- (iv) Data on air quality should be regularly submitted to the Ministry including its Regional Office at Bangalore and the State Pollution control Board, Central Pollution Control Board once in six months.
- (v) Adequate measures for control of fugitive emissions should be undertaken such as water spraying arrangements on haul roads, loading and unloading points and transportation of minerals, etc. Fugitive dust emissions from all sources should be regularly monitored and data recorded properly.

- (vi) Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.
- (vii) Industrial waste water (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 as amended from time to time. Oil and grease trap should be installed before discharge of effluents from the Workshop.
- (viii) Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers should be undertaken periodically and corrective measures taken, if required.

- (ix) The funds earmarked for environmental protection measures should be kept in separate account and not diverted for any other purpose. Year-wise expenditure should be reported to the Ministry of Environment & Forests.
- (x) The project authorities should inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xi) The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated environmental conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.
- (xii) A copy of the clearance letter should be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xiii) The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the collector's/Tehsildar's Office for 30 days.
- (xiv) The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of

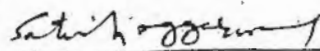
issuance of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at <http://envfor.nic.in>.

**C. All the conditions stipulated by Tamil Nadu Pollution Control Board vide their letter No. T6/TNPCB/F 5640A-Mine/RS/PMLR/2005 dated 2.11.2005 should be complied with.**

3. The Ministry or any other competent authority may stipulate any further additional condition for environmental protection.

4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance.

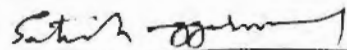
5. The above conditions will be enforced, inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control) of Pollution Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 alongwith their amendments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



(S.K. Aggarwal)  
Director

Copy to:

1. Secretary, Department of Environment & Forests, Government of Tamil Nadu, Fort St. George, Secretariat, Chennai-600009.
2. Secretary (Industry), Industries Department, Government of Tamil Nadu, Fort St. George, Secretariat, Chennai-600009.
3. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (SZ), E-3/240 Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> main Road, II Block, Koramangala, Bangalore-560034
4. Chairmen, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi-110032.
5. Chairperson, Tamil Nadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai-600032.
6. Member Secretary, Central Ground Water Authority, A-3, W-3 Central Ground Water Authority, Curzon Road Barracks, K.G. Marg, New Delhi.
7. Controller General of Mines, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440001.
8. District Collector, Perambalur, Govt. of Tamil Nadu.
9. EI Division, Ministry of Environment & Forests, New Delhi.
10. Guard File. 11. Monitoring File. 12. Record File.



(S.K. Aggarwal)  
Director