

No.J-11015/16/2001-IA. II (M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi - 110 003

Dated: 16th October 2002

To

Shri K.Gowrappan
Vice President-Mining Operation
Madras Cement Ltd.
Auras Corporate Centre
V Floor, 98 A, Dr. Radhakrishanan Road,
Mylapore, Chennai-600 004
TAMIL NADU

NO.	11015/16/2001-IA. II (M)
DATE	16 OCT 2002
TO	Shri K.Gowrappan
FROM	Ministry of Environment & Forests
SUBJECT	Expansion of Alathiyur limestone opencast mine at Alathiyur, Adhanakurichi, Manakudayan and Tular Villages in Sendurai Tehsil, Perambalur District of Tamil Nadu by M/s Madras Cement Limited - environmental clearance reg.

Subject: Expansion of Alathiyur limestone opencast mine at Alathiyur, Adhanakurichi, Manakudayan and Tular Villages in Sendurai Tehsil, Perambalur District of Tamil Nadu by M/s Madras Cement Limited - environmental clearance reg.

Sir,

This has reference to Tamil Nadu, Industries(MMA.2) Department's letter No.12734/MMA.2/2001-1 dated 18.05.2001 and your letters dated 21.05.2001, 06.06.2001, 03.09.2001, 19.04.2002 and 08.06.2002 on the subject mentioned above. The Ministry of Environment and Forests has examined the application. It has been noted that the proposal is for enhancing the production capacity from 5200TPD to 2.574 million TPA and acquiring 412.03 ha of additional land. The total area of the mine is 515.03 ha, which includes 103.0 ha of the existing ML area. Mining leases have been granted for approx.283.ha only. No forest land and displacement of population is involved. Mining is being done by opencast method using surface miner. Approvals from the State Pollution Control Board and IBM have been obtained. Public hearing was held on 05.12.2000. Water requirement of 10.5 m³ /day will be met from the existing borewells. Capital cost of the project is Rs.39.00 crores.

2. The Ministry of Environment and Forests hereby accords environmental clearance to the above limestone mine capacity expansion to 2.574 million TPA by M/s Madras Cement Ltd. involving an additional lease

area of 283.0 ha. only under the provisions of the Environmental Impact Assessment Notification, 1994 as amended on 04.05.1994 and 10.04.1997 subject to the compliance of the terms and conditions mentioned below:

A. Specific conditions

- (i) Top soil should be stacked properly with adequate measures at earmarked site. It should be used for reclamation and rehabilitation of mined out area.
- (ii) OB dumps should be stacked at earmarked site (s) and properly designed keeping in view characteristics of over burden. Dumps should not be kept active for longer period. The over all slope of the dumps should not exceed 28° .
- (iii) A greenbelt of adequate width (10 to 80m) by planting the native plant species all around the ML area, roads, OB dump sites etc. should be raised in consultation with local DFO / Agriculture Department. The density of the trees should be around 1600 trees per hectare.
- (iv) Check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly.

Garland drain (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above 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.

- (v) A detailed mine decommissioning plan should be submitted to the Ministry of Environment and Forests five years in advance for approval.
- (vi) While the mining operation is on, regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers. The interval of

monitoring should be four times a year – pre-monsoon (April / May), monsoon (August), post-monsoon (November), and winter (January). Data thus collected should be sent at regular interval to Ministry of Environment & Forests and the Central Ground Water Board.

- (vii) Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to Ministry of Environment & Forests and its Regional Office at Bangalore.
- (viii) Vehicular emissions should be kept under control and regularly monitored.

B. General conditions

- (i) No change in mining 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 and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO₂, NO_x and CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features, and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.
- (iv) Data on ambient 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) Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump, trucks (loading & unloading) should be provided and properly maintained.

- (vi) Adequate measures should be taken for control of noise levels below 85 dB in the work environment.
- (vii) Industrial waste water (workshop and waste water from the mine) 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. Oil and grease trap should be installed before discharge of workshop effluents into the pond.
- (viii) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
- (ix) 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 program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

- (x) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xi) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry.
- (xii) The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should provide a set of filled-in questionnaire and EIA / EMP report to them and extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
- (xiii) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ 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 informing that the project has been according 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 & Forests at <http://envfor.nic.in>

3. The Ministry or any other competent authority may stipulate any further 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 along with their amendments and rules.

(Dr.T.Chandini)
Additional Director

Copy to:

1. Secretary, Department of Environment & Forests, Govt. of Tamil Nadu Secretariat, Chennai
2. Chief Conservator of Forests (SZ), Ministry of Environment & Forests, Regional Office, Kendriya Sadan, 4th Floor E&F Wings, 17th Main Road, 1 Block, Korammangala, Bangalore-560 034.
3. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, NEW DELHI - 110 032.
4. Chairman, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-32
5. Chairman, Central Ground Water Authority, Ministry of Water Resources, Jamnagar House, New Delhi.

6. District Collector, Perambalur.

7. Monitoring file.

8. Advisor (EI), Ministry of Environment and Forests, New Delhi.

9. Guard file.

10. Record file.



(Dr. T. Chandini)
Additional Director