

No.J-11015/83/2004-IA.II
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi 110003.

Dated: 30th May 2005

To

Shri D.Ravisankar,
President (W),
JK Cement Works,
Kailash Nagar, Nimbahera - 312617,
Dist. Chittorgarh, Rajasthan.

Subject: Expansion of Nimbahera-Ahirpura Limestone Mining Project (1.4 MTPA to 2.0 MTPA) of M/s J.K. Cement Works located in Village Nimbahera, Ahirpura, Tehsil Nimabhera, District Chittorgarh, Rajasthan-environmental clearance -reg.

Sir,

This has reference to the Directorate of Mines & Geology, Government of Rajasthan, Udaipur letter No. DMG/Nimbha/CC-III/F-1(1)2/97/1869 dated 25.11.2004 and your letter dated 28.01.2005 on the above mentioned subject. The Ministry of Environment & Forests has examined the application. It has been noted that the project was accorded environmental clearance by this Ministry on 04.10.2004 for production capacity of 1.4 MTPA involving total lease area of 652.31 ha. The present proposal is for enhancement of production from 1.4 MTPA to 2.0 MTPA without changing the lease area. Total mining lease area of the project is 652.31 ha out of which 364.78 ha is an agricultural land, 53.7 ha is wasteland, 98.59 ha is grazing land and 135.24 ha is others land. No forestland is involved. Area proposed for excavation is 77.40 ha. No ecologically sensitive area such national park/sanctuary/biosphere reserve etc. reported within 10 km radius of the project. There is no population in the core zone therefore displacement of the population is not involved. The annual targeted production capacity of the mine is 2.0 Million Tonnes. Working is opencast by mechanised method involving blasting. Ultimate working depth is 43m bgl. Total water requirement for the project is 20 m³/day of which 1.5 m³/day for drinking will be met from groundwater and remaining 18.5 m³/day from mine sump. A total of 610000 tonnes of topsoil already accumulated and 236m³/month will be generated. No over burden generation is envisaged. NOC from the State Pollution Control Board obtained for production capacity of 20 LTPA. Public hearing held on 19.05.2004. Mine plan approved by the Indian Bureau of Mines on 01.10.2004. Capital cost of the project is Rs.4.60 crores.

2. The Ministry of Environment & Forests hereby accords environmental clearance to the above mentioned limestone mining project of M/s JK Cement Works for production capacity of 2.0 MTPA limestone by opencast method involving total lease area of 652.31 ha under the provisions of the Environment Impact Assessment Notification, 1994 as amended on 04.05.1994 and 10.04.1997 subject to strict compliance of the terms and conditions mentioned below:

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A. Specific conditions

- (i) The environmental clearance is subject to approval of the State Landuse Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use.
- (ii) Topsoil and wastes, if any, should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.
- (iii) Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil and mineral dumps. 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 properly.
 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.
- (iv) Green belt should be raised within and outside lease area and also along the roads. In addition to the existing 30.81 ha brought under plantation, an additional area of 2.2 ha should be brought under green belt development by planting the native plant species in consultation with local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (v) The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- (vi) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director central Ground water Board.
- (vii) The project authorities should obtain prior approval of the competent authority for drawal of groundwater required for the project.
- (viii) Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, CGWB
- (ix) The mineral handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.
- (x) Consent to operate should be obtained from SPCB for the enhanced production.

- (xi) Vehicular emissions should be kept under control and regularly monitored.
- (xii) Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.
- (xiii) Drills should either be operated with dust extractors or should be equipped with water injection system.
- (xiv) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MOEF and its regional office.
- (xv) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.


B. General Conditions

- (i) No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.
- (ii) No change in the calendar plan including excavation, quantum of mineral limestone and waste should be made.
- (iii) Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest department and experts.
- (iv) Atleast 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. Data on ambient air quality (RPM, SPM, SO₂, NO_x, and CO) should be regularly submitted to the Ministry including its Regional Office at Lucknow and to the State Pollution Control Board/Central Pollution Control Board once in six months.
- (v) The data on environmental quality should be collected and analysed either through an in-house environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analysed through an approved laboratory under the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board.
- (vi) Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading, dumps, loading & unloading points should be provided and properly maintained.

- (vii) Adequate measures should be taken for control of noise levels within prescribed standards. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.
- (viii) Industrial wastewater (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 effluents from workshop.
- (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 programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- (x) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
- (xi) 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.
- (xii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year-wise expenditure should be reported to the Regional Office, Lucknow of the MOEF and to the Ministry.
- (xiii) The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.
- (xiv) A copy of the clearance letter will be marked to the concerned Panchayat /local NGO, if any, from whom any suggestions/representation has been received while processing the proposal.
- (xv) The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (xvi) State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's/Tehsildar's Office for 30 days.
- (xvii) The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow .

3. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
4. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
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.


(SATISH C. GARKOTI)
Additional Director (S)

Copy to:

- i) Secretary, Department of Mines & Geology, Government of Rajasthan, Secretariat, Jaipur.
- ii) Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.
- iii) Secretary, Department of Forests, Government of Rajasthan, Secretariat, Jaipur.
- iv) Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Aliganj, Lucknow-226020.
- v) Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- vi) Member Secretary, Central Ground Water Authority, A-2, W3, Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- vii) Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
- viii) Contoller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- ix) District Collector, Chittorgarh District, Rajasthan.
- x) EI Division, Ministry of Environment and Forests, Paryavaran Bhavan , C. G. O. Complex, Lodi Road, New Delhi-110 003 .
- xi) Monitoring File.
- xii) Guard File.
- xiii) Record File.