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No.J-11015/170/2004-IA.II (M)  
Government of India  
Ministry of Environment & Forests

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

Dated: 31<sup>st</sup> March 2005

To  
Shri S.S.Jain,  
Senior Vice-President (Technical),  
M/s Shree Cement Ltd.,  
Bangur Nagar,  
P.O. Box No. - 33,  
Bawar - 305901.  
Rajasthan.

**Subject: Expansion of Sheopura-Kesarpura Limestone Mine of M/s Shree Cement Ltd. located in villages Sheopura and Keasarpura, Tehsil Masuda, District Ajmer, Rajasthan- environmental clearance- reg.**

Sir,

This has reference to letter of Government of Rajasthan, Department of Mines & Geology No.Nikhabhu/Aj/CC-2/P-1(1)24/97/451 dated 15.04.2004 and No. Nikhabhu/Aj/CC-2/P-1(1)24/97/498 dated 23.04.2004 and your letters dated 24.03.2003, 29.11.2003, 04.12.2004, 05.01.2005 and 03.03.2005 on the subject mentioned above. The Ministry of Environment and Forests has examined the application. It has been noted that the proposal is for expansion in production of limestone in the existing mining lease of area of **856.80 ha**, of which 153.1 ha is agricultural land and 703.7 ha is wasteland. No forestland is involved. Of the total lease area, area to be excavated is 225 ha, 88.0 ha is for OB dumps, 4.5 ha is for roads, 70.0 ha is for green belt, and 469.3 ha consisting of 153.1 ha of agricultural land and 316.2 ha of wasteland is others (undisturbed). There are no ecologically sensitive areas such as National Park, Wildlife Sanctuary, or Tiger or Biosphere Reserves found within 10 km of mine site. PF/RF is found at a distance of 1.5 km to 8.0 km. Mining will be Opencast by mechanised method and involves drilling & blasting. The proposal is for expansion of the annual targeted production capacity of the mine from **2.0 million tonnes per annum (MTPA) to 4.0 MTPA**. Mineral transportation of 13,500 TPD is by closed conveyors (75% TPD) and by ropeway (25% TPD). Water table is in the range of 20-45 m below ground level (bgl). Ultimate working depth is 81m bgl and will intersect groundwater. Peak water requirement of 200 m<sup>3</sup>/day of which will be met from mine pit water. Permission from CGWA has been obtained. Approximately 48.24 mill. m<sup>3</sup> of overburden shall be generated over life of mine of which 13.44 mill. m<sup>3</sup> is already accumulated and 34.80 mill. m<sup>3</sup> will be generated which will be stored in OB dumps. Backfilling is not proposed and approx. 225 ha of excavated area will be converted into a water reservoir. Modification of Mining Scheme approved on 04.06.2004. No Objection Certificate has been obtained from the State Pollution Control Board on 03.11.2003. Public Hearing conducted on 28.05.2003. Life of the mine at the rated capacity is 29 years. Capital cost of the project is **Rs 1064 lakhs**.

The Ministry of Environment and Forests hereby accords environmental clearance to the above mentioned **Sheopura-Kesarpura Limestone Mine of M/s Shree Cement Ltd.** for expansion in production of limestone from **2.0 million tonnes per annum (MTPA) to 4.0 MTPA** involving lease area of **856.80 ha** under the provisions of the Environmental Impact Assessment Notification, 1994 and further amendments thereto subject to compliance of the terms and conditions mentioned below:



### A. Specific conditions

- (i) Top soil should be stacked properly with proper slope at ear marked site(s) with adequate measures and should be used for greenbelt development.
- (ii) OB and other wastes should be stacked at earmarked sites only and should not be kept active for long periods of time.  
 Plantation should be taken up for soil stabilisation along the slopes of the dump and reclaimed. Sedimentation pits should be constructed at the corners of the garland drains. The surface run-off should be desilted through a series of check dams and drains before final disposal.  
 OB should be stacked at earmarked external OB dumpsites only in an area of 88 ha within the ML area and shall be a maximum height of 30 m only and consist of three benches of 10 m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of rehabilitated dump sites should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional Office located at Lucknow on yearly basis.
- (ii) Catch drains, and siltation ponds of appropriate size and check dams should be constructed to arrest silt and sediment flows from the mining operations. The drains should be regularly desilted and maintained properly.  
Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. 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) Plantation and green belt development shall be undertaken all around the ML area, OB dumps, roads, etc covering a total area of 158 ha by planting suitable native species in consultation with the local DFO/Agriculture Department. The density of trees should be around 2000 plants per hectare.
- (v) Drills should be wet operated.
- (vi) 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.
- (vii) It shall be ensured that higher benches of the excavated pit/void covering an area of 160 ha and being converted into a water reservoir are terraced to make the slopes gentler and plantation done to stabilise the slopes. Peripheral fencing shall be done along the excavated area.
- (viii) Measures for rainwater harvesting and recharge of water table in the within the lease area shall be undertaken in consultation with the SGWB/Regional Office of the CGWB.
- (ix) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers at suitable locations in project area. The frequency of monitoring should be a minimum four times a year - pre-monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January) seasons for quantity and once in a year in May for groundwater quality. Data generated from groundwater regime monitoring will be submitted to CGWB, Southern Region on an annual basis.

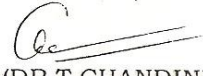
- (x) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.
- (xi) A Consent to Operate shall be obtained from the SPCB before expanding mining operations.
- (xii) Digital processing of the entire lease area using remote sensing techniques should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its Regional Office at Lucknow.
- (xiii) The Proponent shall earmark a separate fund of 1% of the total project cost subject to a minimum of Rs. 50,000/- for eco development measures including community welfare measures in the project area. The amount shall be deposited by the Company in a separate account within three months to be maintained by the Rajasthan State Pollution Control Board. The action plan in this regard shall be submitted to the SPCB as well as to MOEF and its Regional Office at Lucknow within three months of issue of this letter. After approval of the action plan by the SPCB, the amount deposited shall be released in two installments to the project authorities based on progress of implementation. The SPCB shall ensure that implementation of the action plan for eco-development measures is completed within two years from date of its approval by SPCB. Further, the interest accrued during this period on the amount deposited by the proponent with the SPCB shall be ploughed back to the same eco-development fund.

#### **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) Data on ambient air quality (RPM and SPM) should be regularly submitted once a year to the Ministry including its Regional office (CZ) at Lucknow and the Rajasthan State Pollution Control Board / Central Pollution Control Board once in six months.
- (iv) Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provided and properly maintained.
- (v) Adequate measures should be taken for control of noise levels in the work environment.
- (vi) Industrial waste water, if any, 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 or as amended from time to time.
- (vii) 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.
- (viii) 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 this Ministry's Regional Office located at Lucknow (CZ).



- (ix) The Regional Office (CZ) of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the office (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.
  - (ix) A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom and suggestion / representation has been received while processing the proposal.
  - (i) 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 and provide copies of the same to anyone requesting for the same.
  - (xi) 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 the issue of 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 & 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 Rajasthan, Jaipur.
2. Secretary, Mines & Geology Dept., Govt. Of Rajasthan, Udaipur.
3. Secretary, Ministry of Mines, Shastri Bhawan, new Delhi.
4. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Lucknow.
5. Chairman, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
6. Chairman, Rajasthan Pollution Control Board, JAIPUR-400 001
7. Chairman, Central Ground Water Authority, Ministry of Water Resources, Jangpore House, New Delhi.
8. Controller General, Indian Bureau of Mines, 'Indira Bhawan', Civil Lines, NAGPUR-440 001.
9. EI Division, Ministry of Environment and Forests, New Delhi.
10. District Collector, District Ajmer, Government of Rajasthan.
11. Monitoring file. 12. Guard file. 13. Record file.