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No.J-11016/202/2003-IA-II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.G.O.Complex, Lodi Road,
New Delhi-110003.

Dated: 6th January 2005

To
Shri Sunny Gaur,
Director-In-Charge,
M/s Jaiprakash Associates Ltd.,
P.O.Jaypee Nagar-486 450,
Dis. Rewa, (M.P.)

Sub: Bankuian Limestone Mine (1.6 MTPA) of M/s Jaiprakash Associates Ltd. (formerly M/s Jaypee Cements Ltd.) in village Bankuian, Tehsil Huzur, District Rewa, Madhya Pradesh - Application for Environmental Clearance - reg.

Sir,

This has reference to your letters dated 26.03.2003, 05.11.2003, 19.12.2003, 30.06.2004, 07.07.2004, 08.10.2004 and 18.10.2004 on the above-mentioned subject. The Ministry of Environment and Forests has considered the application. It is noted that the proposal is for opening a new mine. The total mining lease area is 541.055 ha which consists of 3 mining leases- ML-1 of 407.005 ha, ML-2 of 79.437 ha and ML-3 of 54.613 ha. The total lease area of 541.055 ha includes 419.337 ha of agricultural land and 121.718 ha of wasteland. No forestland and displacement of population is involved. Mining will be confined to 195 ha, 9.31 ha is for OB dumps, 2.0 ha is for infrastructure, 25.65 is for barrier and safety zone and 309.095 ha will be undisturbed. Mining is opencast by mechanised method and involves drilling and blasting. Rated capacity of the mine is 1.6 million TPA. Transportation of 4850 TPD of mineral to the linked cement plant located at a distance of 6km is by road. Total OB generation over life of mine is estimated to be 7.27 million cubic metre which will be used for backfilling. Total water requirement is 200 m³/d, which shall be met from Naubasta Reservoir (190 m³/d), and groundwater (10 m³/d). Ultimate working depth is 20m below ground level (bgl) and will not intersect groundwater (25-30 m bgl). Approval from the IBM was obtained on 31.03.1994 for ML-1 (407.005 ha), 19.11.1997 for ML-2 (79.437 ha) and on 28.05.2003 for ML-3 (54.613 ha). NOC from Madhya Pradesh State Pollution Control Board has been obtained on 29.03.2003. Public hearing was held on 21.03.2003. Life of the mine at the rated capacity is 16 years. The capital cost of the project is Rs. 2000 lakhs.

The Ministry of Environment and Forests hereby accords environmental clearance to the above-mentioned project of M/s Jaiprakash Associates Ltd. for the Bankuian limestone Mine involving a total lease area of 541.055 ha at a rated capacity of 1.6 MTPA, 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) Top soil shall be stacked properly with proper slope at ear marked site(s) with adequate measures and should be used for greenbelt development.
- (ii) OB should be stacked at earmarked dumpsite only on temporary basis. Garland drains will be provided around the excavations to prevent storm water from catchment area to come in contact with freshly excavated areas. Toe drains will be provided all along the toe of the dump to arrest any soil erosion. Loose material slopes will be planted by making contour trenches at 2m intervals to check soil erosion.
Plantation should be taken up for soil stabilisation along the slopes of the dump. 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.
- (iii) Peripheral bunds, check dams and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from the mining operations. 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.
- (iv) Drills should be wet operated or with dust extractors and controlled blasting should be practised.
- (v) 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.
- (vi) Plantation should also be raised along the roads, dump sites etc. This includes a wide green belt along the periphery of the ML area, OB dump and along road side within the lease area by planting native plant species in consultation with local DFO/ Agriculture Department. At least 2500 plant species/ha should be planted.
- (vii) OB generated shall be used to backfill the 195 ha of mined out area. A Progressive Mine Closure Plan shall be implemented and reclamation and rehabilitation programme of the mined out area shall be done.
- (viii) Mining shall not intersect ground water. Prior approval of the MOEF and CGWA shall be obtained before mining below ground water.
- (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 at least four times a year - pre-monsoon (April/May), monsoon (August), post-monsoon (November), and winter (January) seasons for groundwater level and in May for groundwater quality. Data generated from groundwater regime monitoring will be submitted to CGWB, Regional Office on an annual basis.

- (x) 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 Bhopal.
- (xiii) 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.
- (xiv) A Consent to Operate should be obtained from the SPCB before commencing production.
- (xv) The Proponent shall earmark a separate fund of 1% of the total project cost subject to a minimum of Rs. 50,000.-, with 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 Madhya Pradesh State Pollution Control Board. The action plan in this regard shall be submitted to the SPCB, MOEF and its Regional Office at Bhopal 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 instalments 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 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) Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, NOX and SO₂. 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 environmental quality should be regularly submitted to the Ministry including its Regional Office at Bhopal 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.

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- (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 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 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 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.
 - (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 organisation.
 - (xi) 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.
 - (xii) The project authorities should inform to the Regional Office located at Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
 - (xiii) The Regional Office of this Ministry located at Bhopal 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.
 - (xiv) 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.
 - (xv) 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.
 - (xvi) 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>.

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.

(Dr.T.Chandini)
Additional Director

Copy to:

1. Secretary, Department of Mineral Resources, Government of Madhya Pradesh, Secretariat, Vallabh Bhawan, Mantralaya, Bhopal.
2. Secretary, Department of Environment, Government of Madhya Pradesh, Vallabh Bhawan, Bhopal.
3. Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office (Western Zone), E-3/240, Arera Colony, BHOPAL- 462016,
4. Chairman, Madhya Pradesh State Pollution Control Board, Paryavaran Parasar, E-5, Arera Colony, Bhopal- 462016.
5. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, A-2, W-3, K.G. Marg, New Delhi-110001,
6. Secretary, Ministry of Mines, Shastri Bhawan, New Delhi.
7. Chief Controller of Mines, Indian Bureau of Mines, 'Indira Bhawan', Civil Lines, 7 NAGPUR- 440 001.
8. District Collector, Rewa, Government of Madhya Pradesh, Bhopal.
9. E.I. Division, Ministry of Environment & Forests, New Delhi.
10. Guard File. 11. Monitoring File. 12. Record File.

(Dr.T.Chandini)
Additional Director