

No.J-11015/176/2006-IA.II(M)  
Government of India  
Ministry of Environment & Forests

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

Dated: 17<sup>th</sup> October 2006

To  
Head of Dept. (Env. (Civil),  
**M/s Western Coalfields Ltd.,**  
Coal Estate, Civil Lines,  
Nagpur- 440001.

**Sub: Kamptee Opencast Coal Mine Expansion Project (from 0.65 MTPA to 1.50 MTPA) of M/s Western Coalfields Ltd. (WCL), located in village Tekadi, Tehsil Parseoni, District Nagpur, Maharashtra - Environmental clearance - reg.**

Sir,

This has reference to letter No. 43011/77/2006-CPAM of May 2006 from Ministry of Coal forwarding your application and your letter dated 06.07.2006 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It has been noted that the project is for **expansion in production of the existing Kamptee Opencast Coalmine Project**. The Project had been accorded environmental clearance on 19.05.2000 for change of method of mining from underground to opencast cast method at a rated capacity of 0.65 MTPA. **The total lease area is 269.57 ha** of which 253.57 ha is agricultural land and 16 ha is Govt. land. No forestland is involved. Of the total lease area, area for excavation is 63 ha, 33.73 ha is for OB dumps, 12.53 ha is for embankment, and 160.31 ha is for safety zone and for rationalisation. There area no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. River Kanhan flows at a distance of 2 km from the ML boundary and the Rameshwar nala flows adjacent (about 150m) to ML. The project involve modification of the natural drainage by construction of an embankment. Project involves R&R. of 2861 land oustees. Mining is opencast by semi-mechanised method. Expansion of **the rated capacity of the mine is from 0.65 million tonnes per annum (MTPA) to 1.50 MTPA of coal production**. Mineral transportation of 4550 TPD of coal is by road involving 950 coal tippers and light vehicles. Present working depth is 90m below ground level (bgl).. Ultimate working depth of the mine is 130m bgl. Water table is in the range of 5.10-12.70 m bgl in the core zone and 1-20.50 bgl in the buffer zone. Mining will intersect water table. Average water requirement is 5650 m<sup>3</sup>/d, which is met from mine pit water. Of the total 34.42 Mm<sup>3</sup> of OB estimated to be generated over the mine life in OC operations, about 11.61 Mm<sup>3</sup> of Ob has been accumulated in OB dumps and the balance 22.81 Mm<sup>3</sup> of Ob is to be generated over the balance life of the mine. Almost the entire OB generated (95.6%) will be backfilled. Backfilling is yet to begin. Life of the mine at the rated capacity is 12 years. Public Hearing was held on 06.09.2005. NOC has been obtained on 26.12.2005. The project approval of M/s WCL for expansion was obtained on 07.01.2006. The capital cost of the project is **Rs. 8839 lakhs**.

2. The Ministry of Environment & Forests hereby accords environmental clearance for the above-mentioned **Kamptee Opencast Coal Mine Expansion Project of M/s WCL for expansion in production of coal from 0.65 MTPA to 1.50 MTPA in a total lease area of 269.57 ha** under the provisions of the Environmental Impact Assessment Notification, 2006 subject to compliance of the terms and conditions specified in the Environmental Clearance letter No. J-11015/34/99-IA.II(M) dated 19.05.2000 and additional conditions given below:

**A. Specific Conditions**

- (i) All the conditions stipulated by SPCB in their NOC shall be effectively implemented.

- (ii) Mining shall be carried out as per statuette at a safe distance from the river and nallah flowing within the lease boundary.
- (iii) The embankment constructed along the river/ nallah shall be of suitable dimensions and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- (iv) A time-bound action plan for afforestation shall be prepared to cover total area of 91.73 ha which includes backfilled area, OB dumps (33.73 ha), green belt including area along ML boundary, along roads, and infrastructure (53 ha), embankment ( 5ha) , vacant land and area in township by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (v) The upper benches of quarry area/decoaled void of 63 ha which is proposed to be converted into a water body quarry area shall be gently sloped, terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (vi) The company shall obtain approval of CGWA/CGWB Regional Office for use of groundwater if any, for mining operations.
- (vii) The company shall identify sites for construction of water harvesting structures for augmentation of groundwater resource in consultation with the panchayats of the village(s) in the affected areas and shall complete their construction within an agreed time-frame.
- (viii) Regular monitoring of groundwater level and quality should be carried out by establishing a network of exiting wells and construction of new peizometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.
- (ix) The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
- (x) Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater.
- (xi) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.
- (xii) 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 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 of final mine closure for approval.
- (xiv) Consent to Operate shall be obtained before expanding mining operations.

**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 coal and waste should be made.
- (iii) Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO<sub>2</sub> and NO<sub>x</sub> 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) Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.
- (v) Data on ambient air quality (SPM, RPM, SO<sub>2</sub> and NO<sub>x</sub>) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.
- (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, operation of HEMM, etc should be provided with ear plugs/muffs.
- (vii) Industrial wastewater (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 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.
- (viii) Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.
- (ix) Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
- (x) 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 to take corrective measures, if needed.
- (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 company.
- (xii) 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 this Ministry and its Regional Office at Bhopal.
- (xiii) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.

- (xiv) A copy of the environmental clearance letter shall be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (xv) 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.
- (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 seven days 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 the website 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 and attract the provisions of the 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.

(Dr.T.Chandini)  
Additional Director

**Copy to:**

1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Maharashtra, 15<sup>th</sup> Floor, New Admn. Building, Madam Cama Road, Mumbai - 400032.
3. Chief Conservator of Forests, Regional office (WZ), Ministry of Environment & Forests, E-2/240, Arera Colony, Bhopal - 462016.
4. Chairman, Maharashtra State Pollution Control Board, Kalapatru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floor, Sion Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 40002.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, Nagpur, Government of Maharashtra, New Delhi.
8. Shri M.K. Shukla, CGM, Coal India Limited, SCOPE Minar, Core-I, 4<sup>th</sup> Floor, Vikas Marg, Laxminagar, New Delhi.
9. Monitoring File      10.      Guard File      11.      Record File

(Dr.T.Chandini)  
Additional Director