

No.J-11015/83/2005.IA.II (M)
 Government of India
 Ministry of Environment & Forests

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

Dated the 19th May 2005

To

Director (Technical-P&P)
 M/s Western Coalfields Limited
 Coal Estate, Civil Lines,
 NAGPUR-440 001
 Maharashtra

Subject: Expansion of Telwasa open cast coal mine of M/s Western Coalfields Limited located Village Telwasa, Tehsil Bhadravati, District Chandrapur in Maharashtra- environmental clearance req.

Sir,

This has reference to Ministry of Coal letter No.43011/7/2003-CPAM dated 28.03.2003 and Coal India Ltd. letter dated 03.03.2005 and 08.04.2005 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 of coal production from 0.45 MTY to 1.0 MTY. The project was earlier accorded environmental clearance on 23.12.1993 for production capacity of 0.45 MTY. Total lease area of the project is 266.0 ha, out of which 220.98 ha is agricultural (tenancy) land, 22.68 ha is forestland and 22.34 ha is others Government land. Area proposed for excavation is 49.25 ha, 41.25 ha is kept for external OB dump, 20.0 ha for infrastructure and 112.12 ha for greenbelt and safety zone and 43.48 ha for embankment, rationalisation etc. Township is combined with Majri area. No ecologically sensitive area such national park/sanctuary/biosphere reserve etc. reported within 10 km radius of the project. Bhandak RF is within the buffer zone. 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 1.0 Million Tonnes. Working is opencast with shovel-dumper combination involving blasting. Present working depth is 90 m bgl and ultimate working is 105 m bgl. Total water requirement is 405 m³/day of which 170m³/day is mine site requirement and 235 m³/day is for township. Source of water requirement for mine site is mine discharge water and for domestic use will be obtained from river. A total of 17.14 Mm³ of OB has been excavated till date, out of which 15.89 Mm³ is dumped as external OB dump including embankment and 1.25 Mm³ OB used in back-filling. It is proposed that another 5.63 Mm³ of OB will be generated in the remaining life of the mine. NOC from the State Pollution Control Board obtained on 28.02.2005 for production capacity of 0.40 MTY. Public hearing held on 21.07.2004. Project report has been approved on 28.03.2005 for enhancing production from 0.45 MTY to 1.0 MTY. Capital cost of the project is Rs.40.66 crores.

2. The Ministry of Environment and Forests hereby accords environmental clearance to the above mentioned coal mining project of M/s Western Coalfields Limited for production capacity of 1.0 MTY by opencast method involving total lease area of 266.0 ha under the provisions of the Environment Impact Assessment

- (xi) 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.
- (xii) 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.
- (xiii) Permission from the competent authority should be obtained for drawal of water from Wardha river for domestic use.
- (xiv) Appropriate mitigative measures should be taken to prevent pollution of Wardha river in consultation with the State Pollution Control Board.
- (xv) Coal 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.
- (xvi) Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and CHP wastewater.
- (xvi) Consent to operate should be obtained from SPCB for the enhanced production.
- (xvii) Vehicular emissions should be kept under control and regularly monitored.
- (xix) 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.
- (xx) A Final Mine Closure Plan along with details of Corpus Func 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 & 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 RFM, SPM, SO₂, NO_x & 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 (BPM, SPH, SO₂, NO_x & CO) 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) Drills should be wet operated or with dust extractors and controlled blasting should be practised.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) Acid mine water, if any, has to be treated and disposed of after conforming to the standard prescribed by the competent authority.
- (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) 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.

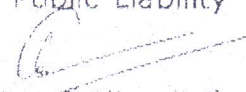
Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures, if needed.
- (xii) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (xiii) 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 and its Regional Office located at Bhopal.
- (xiv) The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

- (xv) 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.
- (xvi) 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.
- (xvii) 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 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 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.


 (Dr. T. Chandini)
 Additional Director

Copy to:

1. Secretary, Ministry of Coal, Government of India, Shastri Bhawan, New Delh.
2. Secretary, Department of Environment, Government Maharashtra, Secretariat, Mumbai
3. Secretary, Department of Forests, Government of Maharashtra, Secretariat, Mumbai
4. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office(WZ), E-2/240 Arera Colony, Bhopal-462 016.
5. Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. Chairman, Maharashtra Pollution Control Board, Shri Chhatrapati Shivaji Maharaj Municipal Market Building, 4th floor, Mata Ramabai Ambedkar Road, MUMBAI-400 001
7. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G Marg, New Delhi-110001.

8. District Collector Chandrapur District, Maharashtra.
9. Shri M.K.Shukla, Chief General Manager, Steel India Limited, 407/8, Surya Kiran, 19 Kasturba Gandhi Marg, New Delhi-110 001.
10. EI Division, Ministry of Environment & Forests, EI Division, New Delhi.
11. Monitoring File.
12. Guard File.
13. Record File.