

23

No.J-11015/63/2005-IA.II (M)  
Government of India  
Ministry of Environment and Forests

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

Dated the 24<sup>th</sup> May 2005

To

Chief General Manager  
M/s Bijuri Project ,  
South Eastern Coalfields Ltd.,  
Bijuri Sub Area,  
P.O. Bijuri  
Shahdol,  
Madhya Pradesh

Subject: Expansion of Bijuri Underground coal mining project of M/s South Eastern Coalfields Ltd. located in Village Bijuri, Tehsil Kotma, District Shahdol in Madhya Pradesh – environmental clearance reg.

Sir,

This has reference to the Ministry of Coal, Government of India letter No. 43011/15/2002-CPAM dated 28.03.2003 and your letter No. SECL/BSP/ENVT./2005/EMP/152 dated 02.03.2005 & subsequent letters dated 18.03.2005 and 19.03.2005 on the subject mentioned above. The Ministry of Environment & Forests has considered the environmental clearance application. It has been noted that the proposal is for enhancement of production from 0.38 MTPA to 0.60 MTPA. Total lease area of the project is 216.146 ha out of which 13.388 ha is Government Land and 202.758 ha is tenancy land. Area proposed for excavation is 216.146 ha. No Forest land is involved. Township exists outside the mine lease at a distance of 2 km. No ecologically sensitive area such as national park/sanctuary/biosphere reserve etc. reported within 10 km radius of the project. Malga Reserve forests is in the buffer zone (2 km from ML). There is one village namely Kendai in the core zone. Displacement of population is not involved. Working is under ground with mechanized method. The annual targeted production capacity of the mine is 0.6 million tonnes. Ultimate working depth will be 150 m bgl. Total water requirement is 410 m<sup>3</sup>/day out of which 310m<sup>3</sup>/day will be met from ground water and 100m<sup>3</sup>/day from mine sump. NOC from the State Pollution Control Board obtained on 24.12.2003. Public hearing held on 14.10.2003. Project report has been approved on 31.03.2005 for enhancement of production from 0.48 MTY to 0.6 MTY. Annual targeted capacity of 0.6 million tonnes. Capital cost of the project is Rs.7.52 crores.

2. The Ministry of Environment and Forests hereby accords environmental clearance to the above mentioned coal mining project of M/s South Eastern Coalfields Ltd. for 0.6 MTY production by underground method involving total lease area of 216.146 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:

(42)

72

**A. Specific conditions**

- (i) Regular monitoring of subsidence movement on the surface on the surface over working area and impact on water bodies/ vegetation/ structure/ surrounding should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.
- (ii) The proponent should take all precautionary measures for protection of surface features by leaving developed coal pillars below them. Further, the protective coal pillars within the subsidence influence area should not be disturbed to avoid the danger of inundation.
- (iii) The project authorities should check the possibility of existence of fault(s) before deciding about the thickness of safe barrier required to be maintained between the working face and the river in consultation with the director General Mines & Safety (DGMS). De-pillaring should be carried out after taking prior approval of the DGMS.
- (iv) Study report on subsidence and stage wise development plan starting from 5<sup>th</sup> year of production till the end of the mine at an interval of 5 year should be submitted to the Ministry within six months.
- (v) Green belt should be raised in an area of 176.0 ha by planting the native species around the ML area, OB dump sites, colony etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (vi) 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.
- (vii) 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.
- (viii) The project authorities should meet the water requirement of nearby village(s) in case the village wells go dry due to de-watering of the mine.
- (ix) 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.

- (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) 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.
- (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.

## **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) At least four ambient air quality monitoring stations should be established in the core zone as well as the buffer zone for RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>, 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, SO<sub>2</sub>, NO<sub>x</sub>, and CO) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board/Central Pollution Control Board once in six months.
- (iv) Drills should either be wet operated or with dust extractors.
- (v) 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.
- (vi) 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.
- (vii) 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 19<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop.
- (viii) Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed the competent authority.


- (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 coal 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, Bhopal of the MOEF and to the Ministry.
- (xiii) 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 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 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.
- (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>.
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 Delhi.
2. Secretary, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.
3. Secretary, Department of Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
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. Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016
7. Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
8. District Collector, Shahdol District, Madhya Pradesh.
9. Shri M.K.Shukla, Chief General Manager, Coal 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.