



ANANTA OEP.
REGD. POST

**OFFICE OF THE
STATE POLLUTION CONTROL BOARD, ORISSA**

Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII,
Bhubaneswar - 751 012

No. 9115 /Ind-II-NOC- 3662

Date 4-2-06

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish for M/s Mahanadi Coal Fields Ltd. for Ananta Open Cast Expansion Project the State Pollution Control Board has been pleased to convey its Consent to Establish under section 25 of Water (Prevention & Control of Pollution) Act, 1974 and section 21 of Air (Prevention & Control of Pollution) Act, 1981 for manufacturing / production enhancement of Coal of Quantity upto 12.0 Million Tonne per Year At.- Talcher Coal Fields, Dera, in the district of Angul with the following conditions.

GENERAL CONDITIONS

1. This Consent to establish is valid for the product, quantity manufacturing process and raw materials as mentioned in the application & for a period of five years from the date of issue of this letter, provided commencement of production of the proposed project has not taken place in the meantime.
2. If the proponent fails to start operation of the project but substantial physical progress has been made then a renewal of this consent shall be sought by the proponent.
3. If the proponent fails to initiate construction of the project and no significant physical progress is made then, the proponent has to apply for consent to establish afresh after expiry of 5 years from the date of issue of this order.
4. Adequate effluent treatment facilities are to be provided such that the quality of sewage and trade effluent satisfies the standards as prescribed under EP Rule or as prescribed by the Central Pollution Control Board and/or State Pollution Control Board or otherwise stipulated in the special conditions.
5. All emission from the industry as well as the ambient air quality and noise are to conform to the standards as laid down under EP Rule/Central Pollution Control Board/State Pollution Control Board of otherwise stipulated in the special conditions.
6. Adequate method of disposal of solid waste is to be adopted to avoid environmental pollution.
7. The industry is to comply to the provisions of EP Act, 1986 and the rules made thereunder with their amendments from time to time such as the Hazardous Chemical/Manufacture, Storage and Import Rule, 1989 etc. The industry is also to comply to the provisions of Public Liability Insurance Act, 1991, if applicable.
8. The industry is to apply for grant of Consent to operate under section 25/26 of Water(Prevention & Control of Pollution)Act, 1974 & Air (Prevention & Control of Pollution)Act, 1981 (If coming under air pollution control area) at least 3 (three) months before the commercial production and obtain Consent to Operate.
9. This consent to establish is granted subject to other statutory clearances from Govt. of Orissa and/or Govt. of India, as and when applicable.

SPECIAL CONDITIONS :-

1. This Consent to establish is granted subject to grant of Environmental clearance from Ministry of Environment & Forests, Govt. of India.

2. No change in mining technology and scope of working shall be made without prior approval of the Board.
3. Top soil should be stacked properly with proper slope at earmarked site(s) with adequate measures and shall be used for reclamation and rehabilitation of mined out areas.
4. Concurrent back-filling should be started as prescribed under Mine Plan. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests with a copy to the Board on yearly basis.
5. Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data. The detail specification shall be worked out and submitted to the Board.
6. A green belt of adequate width shall be raised for suppression of dust by planting the native species around to ML area, roads, OB dump sites, etc., in consultation with the local DFO/Agriculture Department.
7. Reclamation programme along with the post closure plan is to be submitted within 06 months from the date of issue of this order.
8. Catch drains, and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The drains should be regularly desilted and maintained properly.
9. Garland drains (size, gradient and 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.
10. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells. The monitoring should be done four times a year in pre-monsoon (April/May), monsoon (August), post-monsoon (November) and winter (January) seasons. Data thus collected should be submitted to the Board quarterly.
11. Sewage Treatment Plant should be installed for the treatment of domestic effluent generated from the colony and mines so as to meet the prescribed standard of the Board for discharge to inland surface water.
12. Wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform the prescribed standard pH = 5.5 – 9, SS = 100 mg/l, O & G = 10 mg/l and Nitrate Nitrogen = 10 mg/l or as amended from time to time. Oil and grease trap shall be installed before discharge of effluents from workshop.
13. Mine drainage water, shall be treated in Mine drainage water treatment plant and disposed of after conforming to the standard prescribed by the Board i.e pH = 5.5 – 9.0, Total S.S = 100 mg/l, O & G = 10 mg/l. and other parameters conforming to standards for discharge to inland surface water as prescribed under EP Act 1986.
14. Rain water harvesting practice shall be followed by utilizing the rain water collected from the roof of the buildings for recharging of ground water within the premises and other large structures as per the concept and practices prescribed by CPCB, New Delhi and details of which is available in the web-site.
15. Drill should be wet operated or with dust extractors and controlled blasting should be practiced.
16. Six ambient air quality monitoring stations for 24 hours operation should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NO_x, 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.
17. Data on ambient air quality (RPM, SPM, SO₂, NO_x and CO) shall be regularly submitted to the State Pollution Control Board once in six months.
18. Adequate measures to control fugitive emission shall be taken during loading and transportation of minerals, haul roads etc. Fixed sprinklers shall be installed on the side of the haul road for suppression of fugitive dust.

19. The haul roads and arterial roads shall be made black topped / concrete with avenue plantation. Appropriate plan to this effect shall be submitted to the Board within a month.
20. Adequate dust suppression measures shall be taken at coal handling plants by installation of appropriate dust extraction and dust suppression equipments.
21. Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment.
22. Project authority shall undertake sample survey to generate data on pre-project community health status within a radius of 1 km. from proposed mine. The report shall be submitted within 06 months from the date of issue of this order.
23. Consent to operate shall be obtained from SPCB before commencing the mining activities.
24. Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
25. 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.
26. 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, 1986 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
27. All Efforts shall be taken to protect the existing water bodies in the surrounding. A definite plan in this regard shall be submitted to the Board within 06 months from the date of issue of this order.
28. The mine shall carry out plantation activities selecting the specific species such as fruit bearing and economical trees in the back filling area and OB dumps.
29. The haulage roads shall be blacktopped and trucks transporting coal from mining area shall be covered properly to minimize fugitive emission in the area.
30. The board may impose further conditions or modify the conditions stipulated in this order during installation, and/or at the time of obtaining consent to operate and may revoke this clearance in case the stipulated conditions are not implemented and/or any information suppressed in the application form.
31. The Mine shall abide by all the provisions of EP Act, 1986, and rules framed thereunder.

To,

Mr. Pawan Ku Agrawal, CME/Project Officer,
M/S Mahanadi Coal Fields Ltd.
M/s Ananta Opencast Expansion Project,
AT/Po- Dera,
Dist. Angul.

[Signature] 21/02/06
MEMBER SECRETARY

Memo No. _____/Dt.

Copy forwarded to :

1. Collector, Angul,
2. Regional Officer, S.P.C.Board, Angul
3. Dy Director Mines, Angul,
4. District Mining officer, Angul
5. Env. Engineer-II
6. Copy to Guard file/ Consent Register

SENIOR ENV.ENGINEER