

HINGULA

No.J-11015/39/96-IA.II
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi - 110003

January 6, 1997

SUB : Hingula-I Opencast Coal Project of M/s Mahanadi Coalfields Limited (MCL).

DA

The undersigned is directed to refer to your letter no.MCL:SAMB:ENVT:MOEF Hingula-WRI : 96:598 dated 21st May,1996 regarding your application for environmental clearance of the Hingula-I Opencast Project. The Ministry of Environment & Forests has carefully considered your application. It is observed that project is located in Hingula area of Talcher Coalfields. No forest land in the project is involved. Further, displacement of 326 families is involved from the project site. Besides 66 families have been considered under the category of the project affected families. The production capacity of the project is 4.0 million tonnes per year. No captive power generation is proposed.

2. The Ministry of Environment & Forests hereby accord environmental clearance to the Hingula-I Opencast Project involving lease area of 610.0 ha.(mining area - 268.78 ha. only) as per the Environmental Impact Assessment Notification,1994 subject to the strict compliance of the terms and conditions mentioned below :

1. No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.
2. No change in the calendar plan including excavation, quantum of coal and wastes/OB dumps should be made.
3. The top soil and OB dumps//coal dumps should be stacked in earmarked dump sites only.
4. Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, SO₂, NO_x and CO monitoring. Location of the ambient air quality stations should be decided based on the meterological data, topographical features, environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.

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5. Data on ambient air quality should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.
6. Coal Handling Plant should be provided with adequate numbers of high efficiency dust extraction system including all the transfer points. Loading and unloading areas should also have proper dust control arrangements.
7. Fugitive emissions should be controlled, regularly monitored and data recorded properly.

Adequate measures for control of fugitive emission should be taken during drilling/blasting operations, loading and transport of coal etc.

8. Adequate measures should be taken for control of noise levels below the limit of 85 dB in the work environment.

Workers engaged in blasting/drilling operations, operations of HEMM, CHP etc. should be provided with ear plugs/muffs.

9. 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.

Sewage treatment plant should be provided in the township for treatment of the domestic effluent.

10. Acid mine water, if any, has to be treated and disposed of after conforming to the standards prescribed by the competent authority.
11. Garland drains of appropriate size should be constructed to collect the surface run-off from the OB dumps and coal dumps. The collected run-off should be diverted to the sedimentation tank.
12. Ground water quality should be regularly monitored and the data recorded should be furnished to this Ministry and its Regional Office at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.
13. A green belt of adequate width by planting the native species should be raised around the lease area, township, roads,, OB dump site, CHP etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be at least 2500 plants/ha.

14. The stage-wise reclamation programme in the lease hold area as mentioned in EMP should be implemented. The land reclamation and back-filling should be carried out concurrently with the mining activity.
15. The rehabilitation plan envisaged for resettlement of the displaced families should be strictly implemented as per the norms of Government of India/Policy of Coal India Limited. Half yearly progress report on implementation of resettlement plan should be submitted to the Ministry regularly.
16. The project authorities should augment socio-economic and afforestation measures. A time-bound action plan for undertaking the socio-economic/community development measures should be submitted within two months to the Ministry.
17. Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the State Pollution Control Board.
18. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on necessary 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.
19. 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.
20. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
21. The project would be monitored by the Regional Office of this Ministry located at Bhubaneswar. The Project Authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

4. Failure to comply with any condition mentioned above could result in withdrawal of this environmental clearance.

5. The above conditions will be enforced, inter-alia under the provisions of the Water(Prevention & Control of Pollution) Act,1974, Air(Prevention & Control of Pollution) Act,1981. Environment(Protection) Act,1986, Public Liability Insurance Act,1991 along with their amendments and rules.

P. Ahujarai

(DR.P.AHUJARAI)
JOINT DIRECTOR

✓ M/s Mahanadi Coalfields Limited
(Attn : Shri A.N.Sinha, Gen.Manager(ENV))
Mahanadi Coalfields Limited
Ananda Vihar, PO UCE
ORISSA

Copy to :

1. Secretary, Ministry of Mines, Shastri Bhawan, New Delhi.
2. Secretaryt, Science, Technology and Environment Department, Orissa Secretariat, Govt. of Orissa, Bhubaneshwar - 751001.
3. Chief Conservator of Forests(Central), Regional Office(EZ), 194, Kharvela Nagar, Bhubaneshwar - 751001.
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032.
5. Chairman, Orissa Pollution Control Board, A-118 Nilkantha Nagar, Unit VIII, Bhubaneshwar - 751012.
6. Senior Adviser, EI, MOEF, New Delhi.
7. Monitoring File.
8. Guard File.
9. Record File.

P. Ahujarai

(DR.P.AHUJARAI)
JOINT DIRECTOR