

No. 11011/17/86-IA-II

Dated 23rd July, 1990.

OFFICE MEMORANDUM

Subject:- M/s Paradeep Phosphates Ltd (PPL) : Fertilizer Project Phase-II  
Environmental Clearance.

Ref:- PPL's letter No: PP/DL/P&P/A-15/2104 dated 23.5.90.

The undersigned is directed to refer to the above and to state that the environmental aspects of the project have been examined by the Ministry. It has been decided to accord clearance from the environmental angle to the above project subject to the conditions enumerated below:-

1. The project authority must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government of Orissa.
2. Any further expansion of the plant either with existing product mix or any new product can be taken up only with the prior approval of this Ministry.
3. The project authorities should come out with a proposal for bringing the stack emission levels within standards. An action plan in this regard should be prepared and submitted to this Ministry within a period of one year.
4. Adequate number (a minimum of 3 to 5) of air quality monitoring stations should be set up in the down-wind direction as well as where the maximum ground level concentration is anticipated. Also stack emission should be monitored by setting up of automatic stack monitoring unit.
5. There should be no change in the stack design without the approval of the State Pollution Control Board.
6. A reexamination of the discharge into the river should be undertaken at the time of operation of the plant, and if necessary, relocation of discharge points into the coastal water should be envisaged.
7. Cooling tower blowdown along with spillages, floor washings etc. from phosphoric acid may be fully treated.

contd..../-

8. A comprehensive waste water treatment for treating all the liquid effluents including domestic sewage should be set up.
9. Routine toxicity bio-assay based on the effluent with fish and fish food organisms must be carried out at least once a year.
10. Fluoride which is present in the effluent should be recovered and converted into useful product within a period of two years, in order to meet the effluent standard stipulated by Orissa State Prevention and Control of Pollution Board.
11. Slurry water from ponds should be treated for removal of fluoride and phosphate before recycling.
12. The supernatant liquid from gypsum ponds at no stage should be allowed to escape into drains.
13. The treated effluent conforming to the prescribed standards should be utilised for green belt development to the maximum extent possible. The green belt should preferably be developed within the plant-boundary.
14. A plan for complete utilisation of gypsum should be worked-out and within 3 years and in the interim period. The gypsum has to be stored in ponds and a close monitoring of ground water in the vicinity of ponds has to be carried out.
15. A preliminary study on the radio-activity level in gypsum and its likely impact on the environment should be carried out within six months.
16. A detailed risk analysis study should be undertaken. Disaster Management plan should be prepared after risk assessment within 6 months.
17. A separate environmental management cell with suitably qualified people to carry out various functions related to environmental management should be set up under the control of a Senior Technical Personnel who will report directly to the head of the organisation.
18. The project authorities must set up a laboratory facility for collection and analysis of samples under the supervision of a competent technical personnel who will directly report to the Chief Executive.
19. The project authority will provide adequate funds for environmental control measures along with implementation schedule for all the conditions stipulated above.
20. The Ministry or any other competent authority may stipulate any further condition after reviewing the impact assessment report or any other reports prepared by the project authority.

21. The Ministry may revoke clearance if implementation of the stipulated conditions is not satisfactory.
22. The above conditions will be enforced interalia under the water(Prevention and Control of Pollution) Act, 1974, The Air(Prevention and Control of Pollution) Act, 1981 and the Environment (Protection) Act, 1986 along with their amendments.

Sd .

( R. ANANDAKUMAR )  
SCIENTIST 'SE'

Secretary,  
Deptt. of Fertilizers,  
Ministry of Agriculture,  
Krishi Bhavan,  
New Delhi-110 001

Copy to:-

1. Chairman and Managing Director, Paradeep Phosphates Ltd.  
A-132, Shaheed Nagar, Bhubaneswar-751 007.
2. Chairman, Central Pollution Control Board, Privesh Bhavan,  
CBD-cum-Office Complex, East Arjun Nagar, New Delhi-32
3. Chairman, Orissa State Prevention and Control of Pollution  
Board, A-118 Nilakantha Nagar, Bhubaneswar-751 012.
4. Secretary, Deptt. of Science, Technology & Environment,  
Govt. of Orissa, Orissa Secretariat, Bhubaneswar,
5. Chief Conservator of Forests, Regional Office(Easter Zone)  
Ministry of Environment & Forests, 194-Kharavelanagar,  
Bhubaneswar.
6. Guard file.

  
( R. ANANDAKUMAR )  
SCIENTIST 'SE'