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OFFICE OF THE
STATE POLLUTION CONTROL BOARD, ORISSA

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

No 15874 /Ind-II-NOC- 4426

Date 4-7-02

OFFICE MEMORANDUM

In consideration of the application for obtaining Consent to Establish for M/s. Gandhamardan - A Iron Ore Mine of M/s. OMC Ltd. 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 production enhancement of Iron ore of quantity 0.25 MTPA to 0.35 MTPA (over mine lease hold area of 618.576 Ha.) At /PO- Suakati in the district of Keonjhar with the following conditions

GENERAL CONDITIONS.

- 1 This Consent to establish is valid for the product, quantity manufacturing process and raw materials as mentioned above & 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 or otherwise stipulated in the special conditions
- 6 Adequate method of disposal of solid waste is to be adopted to avoid environmental pollution

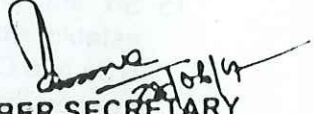
- 7 The industry is to comply to the provisions of EP Act, 1986 and the rules made thereunder with their amendments from time to time such as the Hazardous Chemical/Manufacture, Storage and Import Rule, 1989 etc. The industry is also to comply to the provisions of Public Liability Insurance Act, 1991, 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 subject to statutory and other clearances from Govt. of Orissa and / or Govt. of India as and when applicable.

SPECIAL CONDITIONS :-

1. The mine has to seek environmental clearance as per the EIA notification 2006 or as recommended by EAC/SEAC. However, commencement of mining activity for proposed expansion shall be done after obtaining environmental clearance or as recommended by EIAA/SEIAA.
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 from the fourth year of operation. 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 de-silted and maintained properly. The gradient 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.
9. Regular monitoring of ground water level and quality should be carried out by establishing a net work 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.
10. 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.

- 11 Wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform the prescribed standard i.e pH = 5.5 - 9.0 SS = 100 mg/l & O & G = 10 mg/l or as amended from time to time. Oil and grease trap should be installed before discharge of effluents from workshop. Domestic effluent shall be discharged to soak pit via septic tank.
- 12 Mine drainage water, if any has to be treated and disposed of after conforming to the standard prescribed by the Board i.e pH = 5.5 - 9.0. Total SS = 100 mg/l & O & G = 10 mg/l.
- 13 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.
- 14 Drill should be well operated or with dust extractors and controlled blasting should be practices.
- 15 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. (i) Data on ambient air quality (RPM, SPM, SO₂, NO_x and CO) should be regularly submitted to the State Pollution Control Board once in six months.
- 16 Adequate measures to control fugitive emission shall be taken during loading and transportation of minerals, haul roads etc.
- 17 The haulage 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. Initially 50% of haul road shall be black topped/concrete surfaced.
- 18 Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment.
- 19 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.
- 20 Consent to operate shall be obtained from this Board before commencing the mining activities of proposed expansion project.
- 21 Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
- 22 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.
- 23 The above conditions will be enforced, inter-alia, under the provisions of the water (Prevention & Control of pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rule.
- 24 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 month from the date of issue of this order.
- 25 This consent to establish is granted subject to grant of Explosive License from competent Authority. The valid Explosive License must be submitted to this Board while applying for consent to operate to this Board.

- 26 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
- 27 The industry shall abide by all the provisions of Environment (Protection) Act 1986 and rules framed thereunder
- 28 The unit shall provide bag filter as well as dry fog system at all potential dust generating points of iron ore crusher plants and screening plants to control fugitive emission. Ambient air quality with respect to SPM concentration shall not exceed 500 $\mu\text{g}/\text{m}^3$
- 29 The mine shall obtain forest clearance under Forest (Conservation) Act 1980 if there is involvement of forest land in the mining lease area


MEMBER SECRETARY

To

Sri J. Mishra Deputy General Manager(Geo)
M/s OMC Ltd
OMC House PO Box No 34
Bhubaneswar

Memo No _____/Dt

Copy forwarded to

- 1 Secretary Steels & Mines Govt of Orissa, Bhubaneswar
- 2 Collector Keonjhar
- 3 District Industries Centre, Keonjhar
- 4 Consent Section
- 5 Director, Factories & Boiler, Bhubaneswar
- 6 Regional Officer, O S P C Board, Keonjhar
- 7 DFO Keonjhar
- 8 Copy to Guard file

SR. ENV. ENGINEER(N)