

REGD.POST WITH ACK.DUEOrder No. SEIAA/AP/VZM-24/2009-Dt: 22-06-2010.

Sub: SEIAA, A.P. - Sri Venkateswara Minerals, Sy. No. 227/1, Garbham (V), Merakamudidam (M), Vizianagaram District. - Environmental Clearance - Issued - Reg.

- I. This has reference to your application dt. 19.11.2009 and subsequent lr. dt 18.12.2009, 04.02.2010, 19.02.2010 and 26.02.2010 in this regard, seeking Environmental Clearance for the proposed **Manganese Ore Mine** in favour of **Sri Venkateswara Minerals, Sy. No. 227/1, Garbham (V), Merakamudidam (M), Vizianagaram District**. The proposal has been examined and processed in accordance with EIA Notification, 2006. The Sub-Committee constituted by the SEAC reported that the nearest human habitation few huts and a RCC house exists at a distance of 0.50 Km and Garbham (V) exists at a distance of 1.2 km respectively from the mine lease area. The capital investment of the project is Rs. 3.0 Lakhs. It is noted that the production capacity of the project for which Environmental clearance has been considered is as follows:

Mining of Manganese ore - 2000 TPA

- II. It is an opencast mining operated manually. After breaking the mineral into required size by hand tools, it is directly loaded into the trucks. No drilling and blasting is envisaged. No beneficiation of the ore is proposed. It is reported that the life of the mine is estimated as 20 years. The total mine lease area is 5.24 Ha.
- III. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meetings held on 05.01.2010, 02.03.2010 and 08.04.2010. The Sub-committee constituted by the SEAC inspected the site and submitted a report. The project is exempted from public hearing as the mining lease area is less than 25 Ha., in accordance with the guidelines approved by the SEIAA, AP for processing the applications of mining projects in its meeting held on 10.11.2008. The Committee considered the project proposal, report of the Sub-Committee and recommended for issue of prior Environmental Clearance. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on 03.05.2010 examined the proposal and the recommendations of SEAC. It was decided to issue prior Environmental Clearance to the project. The SEIAA, A.P hereby accords **Environmental Clearance to the project** as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following conditions/safeguards:

A. Specific Conditions:

a) Air Pollution:-

- i. The crushed and screened ore shall directly be transported to the consumers. No beneficiation shall be done at the mining site.
- ii. Plantation of width 5.0m shall be raised along the boundary of mining lease area with the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2000 plants per ha.
- iii. The proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoE&F, GoI on 16.11.2009.
- iv. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

- ii. The following measures are to be adopted to control erosion of dumps:-
 - Retention/toe walls shall be provided at the foot of the dumps.
 - Worked out slopes are to be stabilized by planting appropriate shrub/grass species on the slopes.
- iii. The mineral waste generated during the mining process shall be stored in the mine lease area and shall be used for reclamation of the mine pit.
- iv. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and Transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.

B. General Conditions:

- i. **This order is valid upto 26.05.2029.** It is reported that the life of the mine is estimated as 20 years. The mine lease is granted for a period of 20 years vide G.O.Ms. No. 124, dt. 27.05.2009 of Industries and Commerce (M-III) Dept., Govt of A.P.
- ii. "Consent for Establishment" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act before the start of any mining work at site.
- iii. No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P.
- iv. The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA on 1st June and 1st December of each calendar year.
- v. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, Nox monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- vi. Data on ambient air quality (RPM, SPM, SO₂, Nox) should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- vii. 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.
- viii. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- ix. 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.
- x. The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bangalore.
- xi. The Regional Office of MOE&F located at Bangalore monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring

- v. The following measures are to be implemented to reduce air pollution during transportation of mineral:-
- Roads shall be graded to mitigate the dust emission.
 - Crusher platform will be covered with GI sheets to arrest any dust emission.
 - Over filling of tippers and consequent spillage on the roads shall be avoided. The trucks shall be covered with tarpaulin.
 - Water shall be sprinkled at regular interval on the main haul road and other service roads by water sprinklers to suppress dust.
- vi. The following measures are to be implemented to reduce Noise pollution:-
- Proper and regular maintenance of vehicles and other equipment
 - Limiting time exposure of workers to excessive noise.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
 - Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
- vii. Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010; dt. 11.01.2010 issued by the MoE&F, GOI to control noise to the prescribed levels. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.
- b) Water Pollution:-**
- i. The source of water is bore well. Total water requirement is 17.0 KLD for dust suppression, development of green belt and Drinking / Sanitary purpose. Wastewater generated from the domestic section is to be disposed into septic tank followed by soak pit.
- ii. Garland drain and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.
- iii. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells by the project proponent in and around project area in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Data thus collected should be sent at regular interval to MoEF, CGWA and CGWB, Southern, Region, Hyderabad.
- iv. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting.
- v. Permission from the competent authority should be obtained for drawl of ground water required for this project.
- vi. To allow the free flow of water in the nala, RCC hume pipes of required diameter may be provided for free movement of vehicles over the nala.
- vii. Clearing of the vegetation may be taken up only in the mining area so that the natural vegetation may be preserved in the non-mining area. Green belt development should taken up.
- c) Solid Waste:-**
- i. Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.

- xii. A copy of clearance letter shall be marked to concerned Panchayat /local NGO, if any, from whom suggestion / representation has been received while processing the proposal.
- xiii. State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Center and Collector's Office /Tehsildar's Office for 30 days.
- xiv. 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 SEIAA, A.P.
- xv. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xvi. Concealing the factual data or 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.
- xvii. The proponent shall obtain all other mandatory clearances from respective departments.
- xviii. 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.

Sd/-
MEMBER SECRETARY
SEIAA, A.P.

Sd/-
MEMBER
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

Copy to:

1. Prof. M.Anji Reddy, Chairman, SEAC, A.P. for kind information.
2. The Member Secretary, APPCB for kind information.
3. The EE, RO: Vizianagaram, APPCB for information.
4. The Zonal Officer, MoE&F, GOI Bangalore for kind information.
5. The Secretary, MoE&F, GOI New Delhi for kind information.

-//T.C.F.B.O//-

ENVIRONMENTAL ENGINEER (EC)