J-11015/195/2006- IA. II(M) Government of India Ministry of Environment & Forests

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Dated the May 21, 2007

To

The Director M/s Raipur Alloys & Steel Limited Siltara Industrial Growth Centre Siltara, Raipur (CG) 493111

Dongarbor iron ore mine at village Dongarbor, Tehsil Monala in district Rajnandgaon in Chhatisgarh by M/s Raipur Alloys and Steel Limitedreg environmental clearance. Sir.

This has reference to letter no. RASL/F-15/ENV/2006/96 dated 20.6.2006 and subsequent communication dated 29.6.2006 and 1.2.2007 on the above

The Ministry of Environment and Forests has examined the application. It 2. has been noted that proposal is for environmental clearance for enhancement of iron ore production from 0.2 million TPA to 1.50 Million TPA. The mine is captive to sponge iron unit. It is proposed to install crushing and beneficiation plant inside the lease hold. Total lease area of the mine is 100.0 ha, which is a forest land. Forestry clearance was obtained on 15.5.2002 for diversion of 80.71 ha of land excluding 19.29 ha required for safety zone. Topography of the area is undulated and hilly. Out of 100.0 ha of ML area, 62.71 ha is for mining, 2.0 ha for overburden, 6.0 ha for mineral storage, 6.0 ha for infrastructure, 4.0 ha for roads and 19.29 ha for green belt. Elevation above mean sea level is 440 m to 730m. sensitive area such as national park/ wildlife sanctuary/biosphere reserve/Tiger reserve etc is located within 10km distance of the core zone. No endangered species of flora and fauna exists in the ML area. Method of mining is opencast and semi-mechanized. Blasting is involved. Present working level is 2.5m from original ground level in float ore. Ultimate working level will be 110m from the top of the hill. MSL of the valley floor is 420m. Working will not intersect the ground water table. The ground water table is 400m MSL, whereas present working depth is at

730 MSL and will go up to 620 MSL in insitu ore body and in float ore from 460 MSL upto 430 MSL which is above ground water table. Water requirement of 730m3/d will be met from the ground water source. About 24,36,886 m3/m of solid waste will be generated of which 17,36,886 m3 will be used for backfilling and balance shall be used for road making etc. Backfilling will start once the float zone excavation is completed. It is noted that Public hearing of the project was held on 13.12.2005. IBM has approved the modifications in approved mining plan with post mine closure plan on 12.9.2005. Capital cost of the project is Rs.200.0 lakhs.

- The project was considered as per the old EIA Notification, 1994 as per Sub-para 2.1.1 of the Interim Operational Guidelines dated 13th October, 2006 issued by the Ministry of Environment and Forests under Para 12 of the EIA
- Based on the information submitted by you, the Ministry of Environment and hereby accords environmental clearance for the above project under the provisions of the EIA Notification dated 14th September, 2006 subject to implementation of A.

Specific conditions

- Top soil shall be stacked properly with proper slope with adequate i. safeguards and shall be backfilled for reclamation and rehabilitation of
- Over burden shall be stacked at earmarked dump site(s) only and shall ii. not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and over all slope of the dump shall not exceed 28°. The mine pit area shall be reclaimed by back filling the OB in a phased manner. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & iii.
- Garland drains shall be constructed to arrest silt and sediment flows from soil, and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained

Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular intervals.

- iv. Drilling and blasting shall be by using dust extractors/wet drilling.
- v. Plantation shall be raised in an area of 19.29 ha including green belt of adequate width by planting the native species around the ML area, roads, Department. The density of the trees shall be around 2500 plants per group.
- vi. The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- vii. Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.
- viii. Prior permission from the competent authority shall be obtained for drawl of ground water , if any.
- Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles shall be covered with a tarpaulin and shall not be overloaded.
- x. A Final Mine Closure Plan, along with details of Corpus Fund, shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

B. General conditions

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.
- ii. No change in the calendar plan including excavation, quantum of mineral iron ore shall be made.
- iii. Conservation measures for protection of flora and fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.
- Four ambient air quality-monitoring stations shall 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 ecological data, topographical features and environmentally and undertaken in consultation with the State Pollution Control Board.
- v. 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.
- vi. Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.
- work environment. Workers engaged in operations of HEMM, etc. shall be provided with ear plugs / muffs.
- viii. Industrial waste water (workshop and waste water 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, installed before discharge of workshop effluents.

- Personnel working in dusty areas shall wear protective respiratory ix. devices and they shall also be provided with adequate training and information on safety and health aspects.
- Occupational health surveillance program of the workers shall be X. undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- A separate environmental management cell with suitable qualified xi. personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- The project authorities shall inform to the Regional Office located at XII. Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- The funds earmarked for environmental protection measures shall be xiii. kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional Office located at Bhopal.
- The project authorities shall inform to the Regional Office located at xiv. Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land
- The Regional Office of this Ministry located at Bhopal shall monitor XV. 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 reports.
- A copy of clearance letter will be marked to concerned Panchayat / local xvi. NGO, if any, from whom suggestion / representation has been received while processing the proposal.
- State Pollution Control Board should display a copy of the clearance xvii. letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.

- 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 also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry located Bhopal.
- The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- 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.
- 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.

Yours faithfully,

Copy to:

- Secretary, Ministry of Mines, Government of India Shastri Bhawan, New 1. 2.
- The Principal Secretary, Environment, R. No. 153 Dau, Kalyan Singh Bhawan, Secretariat, Government of Chhattisgarh, Raipur-492001 3.
- Secretary, Department of Mines and Geology, Government of Chhattisgarh, 4.
- Chairman Chhattisgarh Environment Conservation Board, 14/3, Park Street, Choubey Colony, Raipur (CG). 5.
- Secretary, Department of Forests, Government of Chhattisgarh, Raipur. 6.
- Chief Wildlife Warden, Government of Chhatisgarh, Raipur. 7.
- Chairman, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- Chief Conservator of Forests (Central), Ministry of Environment & Forests, 8. Regional Office, E - 3 / 240, Arera Colony Bhopal - 462 016. 9.
- Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, 10. 11.
- District Collector, Dantewada district, Chhattisgarh. 12.
- EI Division, Ministry of Environment & Forests, EI Division, New Delhi. 13. Monitoring File.
- 14. Guard File.
- 15. Record File.

Director