Compliance of conditions laid down in Environmental Clearence

PAKHAR (35.12 Ha)BAUXITE MINES Period : Oct'11 – Mar'12

Sl No	Conditions	Compliance Status
110	Specific Conditions	
1	All the conditions stipulated by SPCB in their NOC shall be effectively implemented.	Complied. Mining operations closed w.e.f 08.06.2009
2	The environmental clearance is subject to approval of the state land use Department, Government of Jharkhand for diversion of agricultural land for non-agricultural use.	complied
3.	Environmental clearance is subject to grant of forestry clearance, Necessary forestry clearance under the Forest (Conservation) Act, 1980 for an area of 3.45ha forestland shall be obtained before starting mining operation in that area.	Existing mines since 17 th apr 1975. Mining operations closed w.e.f 08.06.2009
4	Mining shall not intersect groundwater. The mine working shall be restricted to ground water table. Prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.	Mining operations closed w.e.f 08.06.2009.
5	The project proponent shall ensure that no natural watercourse shall be obstructed due to any mining operation.	complied
6	Top soil shall be stacked properly with proper slope with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	Mining operations closed w.e.f 08.06.2009
7	The waste generated shall be concurrently backfilled in the mined out area. There shall be no external OB dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on six monthly basis.	Mining operations closed w.e.f 08.06.2009

8	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. 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.	Mining operations closed w.e.f 08.06.2009
	Garland drain (size, gradient and length) shall be constructed for mine pit and sump capacity should 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 should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals	
9	and desilted at regular intervals.	9 he area has been planted in Dakhar
7	Plantation shall be raised in an area of 24.83ha including a green belt of adequate width by planting the native species	8 ha area has been planted in Pakhar area.
	around the ML area, roads, reclaimed area etc. in	
	consultation with the local DFO / Agriculture	
	Department. The density of the trees should be around	
	1500 plants per ha.	
10	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director,	Mining operations closed w.e.f 08.06.2009
	Central Ground Water Board.	
11	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should 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. Prior permission from the competent authority should be	Mining operations closed w.e.f 08.06.2009 Mining operations closed w.e.f
	obtained for drawl of water from the surface water bodies.	08.06.2009
13	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	Mining operations closed w.e.f 08.06.2009
14	Drills should either be operated with dust Minim extractors or should be equipped with water injection system.	g operations closed w.e.f 08.06.2009

15 16	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibration and to arrest fly rocks and boulders should be implemented. Consent to operate should be obtained from SPCB prior to start of enhanced production from the mine.	Mining operations closed w.e.f 08.06.2009 Mining operations closed w.e.f 08.06.2009
17	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and wastewater generated from mining operations.	There is no effluent from mine.
18	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as Indian Python etc. Spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.	Mining operations closed w.e.f 08.06.2009
19	A Final Mine Closure plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of	Final Mine Closure Plan is in the process of approval as soon as the approval is available we will inform to Regional Office of MoEF
	final mine closure for approval.	

GENERAL CONDITIONS

Sl	Conditions	Compliance Status
No		-
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest	Mining operations closed w.e.f 08.06.2009
2	No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.	Mining operations closed w.e.f 08.06.2009
3	Four ambient air quality-monitoring station should be established in the core zone as well as in the buffer zone for RPM, SPM, SO_2 , NO_X monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets and	. Mining operations closed w.e.f 08.06.2009

	frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	
4	Data on ambient air quality (RPM, SPM, SO ₂ , NOx) should be regularly submitted to the Ministry including its Regional office located at Bhubneshwar and the State Pollution Control Board / Central pollution Control Board once in six months.	. Mining operations closed w.e.f 08.06.2009
5	Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Mining operations closed w.e.f 08.06.2009
6	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operation of HEMM, etc. should be provided with ear plug / muffs.	Mining operations closed w.e.f 08.06.2009.
7	Industrial waste water (workshops and waste water from the mine) Should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Mining operations closed w.e.f 08.06.2009
8	Personnel working in dusty areas should wear protective respiratory devices and they should also provided with adequate training and information on safety and health aspects. 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.	Mining operations closed w.e.f 08.06.2009
9	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.	Separate Environmental Management Cell (EMC) has been constituted and is functioning effectively. Copy enclosed.(Annexture).
10	The project authorities should inform to the Regional Office located at Bhubneshwar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Not applicable. The mine is running since 1976

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11	The funds earmarked for environmental	Statement of budgetary provision and actual
	protection measures should be kept in separate	expenses for environmental protection measure
	account and should not be diverted for other	is enclosed. It is once again reiterated that the
	purpose. Year wise expenditure should be	funds so ear marked shall not be diverted for any
	reported to the Ministry and its Regional	other purposes other than it is committed at the
	Office located at Bhubneshwar.	beginning of the financial year. (Annexture).
12	The Regional Office of this Ministry located at	Complied.
	Bhubneshwar shall 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	
	reports.	
13.	The project proponent shall submit six monthly	Complied.
	report on the status of the implementation of	-
	the stipulated environmental safeguards to the	
	Ministry of Environment and Forests, its	
	Regional Office, Bhubaneshwar, Central	
	Pollution Control Board and State Pollution	
	Control Board.	
14	A copy of clearance letter will be marked to	Complied .
	concerned Panchayat / local NGO, if any, from	-
	whom suggestion / representation has been	
	received while processing the proposal.	
15	State Pollution Control Board should display a	Not applicable.
	copy of the clearance letter at the Regional	
	office, District Industry Center and Collector's	
	office / Tehsildar's Office for 30 days.	
16	The project authorities should advertise at least	Complied. Copies, of the advertisement made in
	in two local newspapers widely circulated, one	the local newspapers, have already been
	of which locality concerned, within 7days of	submitted to the Regional Office during our last
	the issue of the clearance letter informing that	six monthly report bearing letter no
	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://	
	— <u>+</u>	
	<u>/envfor.nic.in</u> and a copy of the same should	
	be forwarded to the Regional Office of this	
	Ministry located Bhubneshwar.	