

**Compliance of conditions laid down in Environmental Clearance**

**PAKHAR BAUXITE MINES**

**Period : Oct'11 – Mar.'12**

**MoEF Environment Clearance ref: No. J-11015/21/95-IA.II(M) dated September 11, 1997**

<b>Sl No</b>	<b>Conditions</b>	<b>Compliance Status</b>
i	No Change in mining technology and working plan should be made without prior approval of the Ministry of Environment & Forest.	Being Complied. Applied for New EC for capacity expansion from 0.073 MTPA to 0.3 MTPA.
ii	No change in the calendar plan including excavation, quantum of bauxite and wastes/OB dumps should be made.	Being Complied. Mining is as per the plan.
iii	NOC from the Bihar Pollution Control Board should be obtained before initiating construction and /or mining activity at site and copy be sent to this Ministry.	NOC has already obtained from JSPCB. Ref No. 1383 dated 05.03.03
iv	The top soil and OB dumps should be stacked in earmarked dump sites only.	Top soil & OB (laterite) are dumped separately at stipulated sites only.
v	Four ambient Air Quality monitoring stations should be established in the Core zone as well as buffer zone for SPM, RPM, SO <sub>2</sub> , NO <sub>x</sub> and CO monitoring. Location of the ambient air quality monitoring stations should be decided based on the meteorological data, topographical features, environmentally sensitive targets in consultation with the State Pollution Control Board.	In core zone Air Quality monitoring is carried out quarterly.
vi	Data on ambient Air quality should be regularly submitted to this Ministry including its regional office at Ranchi and the State Pollution Control Board/Central Pollution Control Board once in six months.	Being Complied. Report enclosed in Annexure
vii	Fugitive emissions should be controlled, regular monitoring and data recorded properly. Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations, loading and transportation of bauxite etc.	Controlled by proper maintenance of equipments.
viii	Adequate measures should be taken for control of noise level below 85dB in the work environment. Workers engaged in blasting and drilling	Being complied. Workers have been provided ear plugs/muffs.

	operations, operations of HEMM etc should be provided with ear plugs/muffs	
ix	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 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup> December, 1993. Sewage treatment plant should be provided in the township for treatment of domestic effluent.	No waste water is generated as no workshop is present. The sewage water from domestic uses is being collected through individual septic tanks & soak pits.
x	Garland drains of appropriate size should be constructed to collect the surface run off from the OB dumps and bauxite dumps. The collected run off should be diverted to the sedimentation tank before final disposal.	Appropriate drains, check dam, sumps will be constructed before monsoon to arrest surface run off if any. The collected water at mine sump will be used for sprinkling and plantation.
xi	Ground water quality should be regularly monitored and the data recorded should be furnished to this Ministry and its Regional Office at Ranchi and the State Pollution Control Board/Central Pollution Control Board once in six months	Mining operation is confined within shallow depth (20 m max). It does not intersect the Ground Water Table.
xii	A green belt of adequate width by planting the native plant species should be raised around the lease area, township, roads, OB dump sites etc in consultation with the local DFO/Agricultural Department. The density of the plant should be at least 2500 plants/ha.	Being complied. Approx. 8 ha area plantation has been done in Pakhar area in 2011 uptill now. Further, plantation is being planned.
xiii	All Mined out areas should be reclaimed and afforested before abandonment of the mines	Mine is under operation since 2005. Backfilling and reclamation has been carried out.
xiv	The project authorities should augment socio-economic and afforestation measures. A time bound action plan for undertaking the socio-economic/community development measures should be submitted within two months to the Ministry	Being complied.
xv	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the State Pollution Control Board.	Environmental monitoring and analysis is carried out periodically by authorized agency.

xvi	<p>Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> <p>Occupational health surveillance programme of the workers should be undertaken periodically to observe any contraction due to exposure to dust.</p>	<p>All types of PPEs have been provided to the workers exposed to dust.</p> <p>Conducting Occupational Health check-up are being carried out periodically as per Mines Rule.</p>
xvii	<p>A separate Management cell with suitably qualified personnel should be set up under the control of Senior Executive, who will report directly to the Head of the Organization.</p>	<p>Already formed.<b>(copy submitted)</b></p>
xviii	<p>The funds earmarked for environmental protection measures should be kept in a separate account and should not be diverted for other purposes and year wise expenditure should be reported to the Ministry</p>	<p>Separate budget has been prepared for the purpose.<b>(copy enclosed as annexure)</b></p>
xvi	<p>The project would be monitoring by the Regional Office of this Ministry located at Ranchi. The project authorities should extend extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information / monitoring reports.</p>	<p>Being complied.</p>