

MINERALS & MINERALS LIMITED

Regd. Office P.O. & Dist. – Lohardaga (Jharkhand) PIN – 835302

Phone : 06526-224016, 224112, FAX : 06526-224118

Ref No: M&M/LHD/VP (M)/MoEF/ 470

Date: 22.11.2013

To,
The Joint Director (S),
MoEF, GOI, Eastern Regional Office.
A/3, Chandrashekharapur,
Bhubaneswar-751023 (Orissa)

Sub: **Compliance Report of EC conditions for Bimarla (134.526 ha) Bauxite Mining project of M/s Minerals & Minerals Limited located in Gumla, Jharkhand.**

Ref: **Environmental Clearance letter no J-11015/87/2009-IA.II (M) dated 24th Sep, 2013**


Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for **Bimarla (134.526 ha) Bauxite Mining project of M/s Minerals & Minerals Limited**, located in Gumla district of Jharkhand.

Hope you will find the same in order.

Thanking You

Yours Sincerely
FOR Minerals & Minerals Limited


(Bijesh Kumar Jha)
Vice President (Mines)

Enclosure: - As Above

Bimarla Bauxite Mines (Area 134.526 Ha)

Environmental Clearance –Vide letter no-J-11015/87/2009-IA.II (M) dated 24th Sep, 2013

Compliance Status

Sl no	Specific Condition	Compliance
1	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board and effectively implement all the conditions stipulated therein.	Already applied to JSPCB for Consent to Establish vide letter M & M/LHD/AGM (G)/env/884 date 29.12.2009 and applied for Consent to Operate vide letter no-HIL/LHD/GEO/JSPCB-710 date 07.10.13.
2	Implementations of conditions laid down in the letter of the State Department of Forests vide dated 11.05.2012 with regard to permission for transportation of ore through the forest land.	Will be implemented.
3	Necessary wildlife clearance as may be applicable to this project should be obtained. Measures for conservation of flora and fauna observed in the study area shall be undertaken. Wildlife Conservation Plan shall be implemented in consultation with the State Forests and Wildlife Department.	Will be complied
4	Adequate measures for control of air pollution in the area shall be taken and it shall be ensured that the pollution levels do not exceed the prescribed limits.	Will be complied

5	No working shall be undertaken in the forest area for which forestry clearance has not been obtained.	Lease area is devoid of any forest land.
6	Necessary prior clearance, as applicable shall be obtained from CGWA for working below groundwater table.	Mining will be confined to above ground water table level only.
7	The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.	Complied
8	The mining operations shall be restricted to above the groundwater table and it should not intersect the groundwater table, In case of working below the groundwater table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydrogeological study shall be	Mining will be confined to above ground water table level only. Mining will not intersect the ground water table.

	carried out.	
9	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. The first order streams and the seasonal nallahs originating from the mining lease area shall be protected.	No natural watercourse and/or water resources will be obstructed due to any mining operations. The first order streams and the seasonal nallahs originating from the mining lease area will be protected.
10	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long, The topsoil shall be used for land reclamation and plantation.	Will be complied
11	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 and its Regional Office, Bhubaneswar on six monthly basis.	Will be complied
12	Catch drains and siltation ponds of appropriate size shall be constructed around the working pit, sub-grade dump, soil and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields and the water bodies. 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	Will be complied

	<p>monsoon, and maintained properly, Garland drains settling tanks and check dams of appropriate size, gradient and length shall be constructed for both around the mine pit and sub-grade dump to prevent run off of water and flow sediments directly into the agricultural fields and the water bodies 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 settling of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	
13	<p>Dimension of the retaining wall at the toe of sub-grade dump and OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	Will be complied
14	<p>The plantation is proposed over an area of 24 ha with 2500 samplings per ha.</p>	Will be complied after commissioning of mining and subsequent reclamation.
15	<p>Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate</p>	Will be complied

	<p>matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.</p>	
16	<p>The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.</p>	Will be complied
17	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.</p>	Will be complied

18	Monitoring of the springs shall be carried out for the quality and quantity of water regularly so as to ensure that there is no adverse impact- on the same due to the project. Records in this regards shall be maintained.	Will be complied
19	It shall be ensured that there is no change in the hydrology of the area due to the project.	Agreed
20	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	Will be complied
21	Appropriate mitigative measures shall be taken to prevent pollution of the all the water bodies, in consultation with the State Pollution Control Board	Will be complied
22	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 from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	Will be complied

23	Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	Blasting operation will be carried out only during the daytime only (during 12.00 to 1.00 PM). Controlled blasting technique will be implemented.
24	Drills shall either be operated with dust extractors or equipped with water injection system.	Will be implemented.
25	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Will be complied
26	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	Suitable measures will be taken.
27	The project authorities should undertake sample survey to generate data on pre project community health status within a radius of 1 km from proposed mine.	Will be complied
28	Pre-placement medical examination and periodical medical examination of the	Will be complied

	workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	
29	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Will be complied after obtaining consent to establish.
30	The critical parameters such as RSPM (Particulate matter with size less than 10µm i.e. PM ₁₀) and NO _x in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharged water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)]. The monitored data shall be uploaded on the website of the company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in public domain. The Circular No. 3-20012/1/2006- IA.11 (M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nican shall also be referred in this regard for its compliance.	Will be complied

31	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Will be complied in due time.

Sl No	General Conditions	Compliance
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Agreed
2	No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.	Agreed
3	Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest and wildlife department	Will be complied
4	At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM10) and 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	Will be complied

	undertaken in consultation with the State Pollution Control Board	
5	Data on ambient air quality [(RSPM (Particulate matter with size less than 10micron i.e., PM10) and NOx] should be regularly submitted to the Ministry including its Regional office located at: Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.	Will be complied
6	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.	Will be complied
7	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Will be complied
8	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 31' December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Will be complied
9	Personnel working in dusty areas should wear protective respiratory devices	Will be undertaken as per statutory.

	and they should also be 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.	
10	A separate environmental management cell with suitable qualified personnel directly to the Head of the Organization.	Centralized separate environment management cell with suitable qualified persons is already formulated.
11	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 Bhubaneswar.	The funds earmarked for environmental protection measures will be kept in separate account and will not be diverted for other purpose. Annual expenditure will be reported to the Ministry.
12	The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Will be reported in due time.
13	The Regional Office of this Ministry located at Bhubaneswar 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 /	Agreed.

	monitoring reports.	
14	<p>The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their vwebsite and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board</p>	<p>Six monthly compliance will be submitted in due time to to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. And also will be uploaded in Hindalco's website.</p>
15	<p>The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.</p>	---
16	<p>The environmental statement for each financial year ending 31 March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the</p>	Will be complied

	<p>status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.</p>	
17	<p>The project authorities should advertise at least in two local newspapers of the 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 should be forwarded to the Regional Office of this Ministry located at Bhubaneswar</p>	<p>Complied. Relevant paper cutting is enclosed with this report for information.</p>



दैनिक जागरण

रांची, 6 अक्टूबर 2013

ADITYA BIRLA
HINDALCO

मिनिरल्स एण्ड मिनिरल्स लिमिटेड
लोहरदगा-झारखण्ड

सूचना

यह सूचित किया जाता है कि मिनिरल्स एण्ड मिनिरल्स लिमिटेड के बिमरला बॉक्साईट माइन्स (पट्टा क्षेत्र 134.526 हे.) के अन्तर्गत बारांग, घाघरा, कोरले एवं बिमरला गांव, जिला गुमला, झारखण्ड को भारत सरकार के वन एवं पर्यावरण मंत्रालय द्वारा पर्यावरण स्वीकृति प्रदान किया गया है। इस स्वीकृति का प्रपत्र झारखण्ड राज्य प्रदुषण नियंत्रण बोर्ड के पास उपलब्ध है, एवं पर्यावरण मंत्रालय के वेबसाइट <http://envfor.nic.in> में उपलब्ध है।

उपाध्यक्ष - खान
मिनिरल्स एण्ड मिनिरल्स लिमिटेड
लोहरदगा-झारखण्ड

Ref. HIL/P&A/Advertisement/ 319/
Date-05.10.2013



JHARKHAND MINES, LOHARDAGA

P & A DEPARTMENT

DATE:

NEWS PAPER:

दैनिक भास्कर
रांची, रविवार, 08 अक्टूबर 2013.

NOTICE

This is to inform that Bimarla Bauxite Mines (Lease area 134.526 Ha.) project of M/s Minerals & Minerals Limited located in Village Barang, Ghaghra, Korle and Bimarla, District Gumla, Jharkhand has been accorded Environment Clearance by Government of India, Ministry of Environment and Forest. A copy of the clearance letter is available with the Jharkhand State Pollution Control Board and also at website of the Ministry of Environment and Forest at <http://envfor.nic.in>.

**Vice President-Mines
M/s Minerals & Minerals Limited
Lohardaga-Jharkhand**

Ref: NL/P&A/Advertisement/ 319 Date 08.10.2013