



Registered Post

**The Director,
Ministry of Environment & Forests**
Paryavaran Bhavan, CGO Complex,
Lodhi Road,
New Delhi – 110003

21/05/2013

Subject: Compliance Status of Environment Clearance conditions

Dear Sir,

We have been granted Environment Clearance to our **Durgmanwadi Bauxite Mines** on 5th of February 2007 vide clearance No. J-11015/239/2006-IA-II (M).

The compliance for the 6 months duration (October'12 to March'13) against the conditions laid down in the Environment Clearance is attached herewith.

Also attached please find the environment monitoring report of Air, Water and Noise quality for the post-monsoon and winter season.

Hope you will please find the above in order.

Thanking you,

Yours very truly,


A. R. Rane
Asst. Vice President

Encl. A/a

Copy to:

1. The Chief Conservator of Forests (Central)
Ministry of Environment & Forests
Regional office, BHOPAL
2. The Regional Officer
Maharashtra Pollution Control Board
Udyog Bhawan, KOLHAPUR

HINDALCO INDUSTRIES LIMITED
Durgmanwadi Mines :
PO Radhanagari - 416 212
Dist. Kolhapur, Maharashtra

Telephone +91 02321 202072 / 78 / 202178 / 133
Kolhapur Telephone +91 0231 2661456 to 61
Kolhapur Fax +91 0231 2661462

Website www.hindalco.com

**COMPLIANCE STATUS OF
ENVIRONMENTAL CLEARANCE CONDITIONS**
**Environment Clearance Durgmanwadi Bauxite Mines granted on 5th of
February 2007 vide clearance No J-11015/239/2006-IA-II (M)**

| Sr.No. | Conditions | Compliance |
|-------------------------------|--|---|
| Specific Conditions :- | | |
| i) | The mining activity to be restricted to private land only for which the conservation plan has been accepted by the State Government. | The mining activity presently is restricted to private land only. |
| ii) | Preparation of conservation plan for protection of endangered fauna reported in the study area | Conservation Plan for protection of endangered species is submitted to MoEF at the time of grant of Environment clearance. |
| iii) | Top soil to be stacked properly with proper slope with adequate safeguards & backfilled for reclamation & rehabilitation of mined out area | The top soil stacked initially in dumps is rehandled and used for mine restoration. |
| iv) | Overburden to be stacked at earmarked dump site(s) only at max height not more than 20 m and slopes not to exceed 28 ^o . The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface runoff. | All the overburden dumps are backfilled into the mined out voids. The backfilled areas are being scientifically vegetated through afforestation. |
| v) | External OB dumps and other wastes to be stacked at earmarked sites only. | There are no external dumps for overburden stacking. |
| vi) | Catch drains and siltation ponds of appropriate size to be constructed to arrest silt and sediment flows. | The run-off mine is channelised towards settling tanks and silt check dams. All the natural storm water flow is passed through silt check dams. |
| vii) | Drilling and blasting should not be involved | Drilling & blasting is totally done away with. For breaking of strata Rippers and Rock Breakers are used. |
| viii) | Plantation to be raised in an area of 121.50 ha. The density of trees should be around 2000 plants per ha. | The plantation is carried out every year as per plan. Plantation has been carried out in 114 Ha areas so far. In addition to this we had carried out plantation in 1.5 Ha area during the year 2012-13. |
| ix) | Implement suitable conservation measures to augment ground water resources in the area | 4 Nos. Water harvesting ponds are developed in the mined out areas. As the mine plateau is on high elevation, the water accumulated in mined out area mostly percolates down to the nearby water sources. Some water is also evaporated during dry months. |

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| x) | Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells. | The ground water quality is monitored on quarterly basis. The mining is carried out to a depth of 7 to 10 Mts from the surface. There is no interference of mining activity with the ground water table. |
| xi) | Plan rainwater harvesting measures on long-term basis should be planned and implemented. | 4 Nos. Water harvesting ponds are developed in the mining area. The entire mined out area is itself act as a water harvesting pit. However, the above ponds also serve as a water reservoir to cater the water requirement of dust suppression and for plantation. |
| xii) | a) Vehicular emissions to be kept under control. b) The vehicles should be covered with a tarpaulin and shall not be over loaded. c) Regular water sprinkling arrangements shall be made to control the fugitive dust generation from the haul roads. | There is a system to check the PUC certificates of hired trucks. Timely maintenance of all heavy equipments is carried out. All transport vehicles are covered with tarpaulin. The vehicles are weighed within the mines. All the vehicles are carrying bauxite as per RLW. Atomized water sprinklers are installed on the road sides for dust suppression wherever possible. Mobile water tankers are also used to sprinkle water on haul roads. |
| xiii) | Install sewage treatment plant for colony. ETP should be provided for workshop and waste generation from mining operation. | There is no colony set up for the mines. There is no processing of mineral carried out at mines. |
| B General Conditions. | | |
| i) | No change in mining technology and scope of working without prior approval | There is no change in the mining technology and in the scope of working. |
| ii) | No change in calendar plan including excavation, quantum of mineral ore & waste | The production is restricted to the approved quantity. |
| iii) | Conservation measures for protection of flora & fauna in the core & buffer zone to be drawn | Mined out area are scientifically afforested. For this we procure soil, manure, bagasse and press-mud to improve the condition of plantation base. We have engaged experts to implement afforestation activity. Care has been taken to plant mostly local flora along with some exotic species. |
| iv) | Establish four ambient air quality monitoring stations in the core zone & buffer zone for RPM, SPM, SO ₂ , NO _x . Monitoring. | 8 Nos. of Ambient air quality stations have been established in the core and buffer area respectively. |

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| v) | Regular submission of data on ambient air quality (RPM, SPM, SO ₂ ,NO _x) | The monitoring is carried out as per the schedule and Data is submitted regularly The post-monsoon & winter reports are attached. |
| vi) | Regular control of fugitive dust emissions from all the sources | The dust in crushing operation, during mining and transportation is suppressed by atomized water sprinklers installed at dust transfer points. |
| vii) | Take measures for control of noise levels below 85 dBA in the work environment | All the noise generating machineries are enclosed to suppress the noise. The noise level in the work environment is below 85dBA and all the workers engaged in operations of HEMM are provided with ear-plugs / muffs |
| viii) | Proper collection, treatment of industrial waste water to conform the standards prescribed under GSR 422 (E) dt.19 th May, 1993 | There is no industrial waste water as there is no processing is carried out. |
| ix) | Provide adequate training and information on safety & health aspects & provide protective respiratory devices to workers | Regular training to employees on Safety and Health aspects is provided. |
| x) | Undertake periodical Occupational health surveillance program of workers | The health surveillance is done once in a year for all employees and there are no cases of occupational health hazards. |
| xi) | Set-up separate environmental management cell with suitable qualified personnel. | A qualified person has been employed at the unit level. A full fledged Environment cell operates at the corporate level. |