

Ref.:- HIL/KBM/65/2019

20.05.2019

To,  
The Addl. Principal Chief Conservator of Forest (Central),  
MoEF Regional Office (Western Zone)  
Kendriya Paryavaran Bhawan, Link Road-3, Ravisankar Nagar  
Bhopal-462016 (M P)

**Sub:-** Status of compliance of EC condition (Half yearly status of compliance report) of Kudag Bauxite Mine (Lease area- 377.116 Ha.) of Hindalco Industries Limited of Chhattisgarh state from Oct.-2018 to March -2019.

Ref No:- Environment Clearance Letter No-J-11015/354/2007-IA. II(M) dated July27, 2007

Dear Sir,

We do hereby submit half yearly compliance statusreport of EC condition with respect of Kudag Bauxite Mine, Lease area -377.116 Ha, of Hindalco Industries Limited, P.O- Kusmi in Balrampur- Ramanujganj, district, Chhattisgarh state, PIN-497224 from Oct. -2018 to March -2019. The lease details is as below:-

Lease area	Production Capacity	Lease Period
377.116 Ha.	60000 Tonnes	24.12.1996 to 23.12.2046 (50 years)

We assure that we comply all the conditions laid down in the consent letter and also abide to follow all the Rules and Regulations.

Thanking you,

Yours' faithfully

For, Hindalco Industries Limited

(R R P Ambastha) **Agent of Mines**  
Agent of Mines **Samri Mines Division**  
Encl:- **Hindalco Industries Ltd**

1. Half Yearly Status of compliance of Environment condition as annexure-I.
2. Environment Status Report from Oct.-2018 to March -2019, enclosed as annexure-II.
3. Renewal copy of Consent to Operate from CECB enclosed as annexure -III
4. Production report from Oct. -2018 to March -2019 & 2018-19 enclosed as annexure-IV.
5. Status report of mined out, reclaimed and afforested land as annexure-V.
6. Actual expenditure incurred in protection of environment from Oct.-2018 to March -2019 as annexure-VI.
7. Soft copy of documents by CD.

C.C.- The Regional Officer, CECB, Ambikapur

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20.05.2019

**Status of Compliance from October-2018 to March -2019 of Environmental Condition laid down by MOEF**

**Kudag Bauxite Mine**

The status of compliance of the conditions (as per point no.3) with reference to environment clearance letter no.J-11015/354/2007-11A. II(M) dated 27.07.07 of Ministry of Environment & Forests, New Delhi, for expansion of production capacity of Kudag Bauxite Mine is as under.

**A Specific condition:-**


- (i) The wild life management plan has been approved by competent Authority.(Annexure-A)
- (ii) We accept the condition.
- (iii) The conservation plan for schedule I fauna have been prepared. The authenticated list of flora and fauna for core and buffer zone is enclosed for perusal please. (Annexure-B).
- (iv) The mining operation is being restricted to above ground water table. As per our current mining operation, ultimate depth of working is about 15 meters below whereas the water table in the core zone is about 50-52 meters. We undertake that no mining operation is being carried out/will be carried out below the water table.
- (v) Top soil is being stacked properly with proper slope and adequate safeguards. Solid waste is being utilized for simultaneous back filling of mined out area for reclamation purpose followed by laying down of top soil on it as applicable. The practice is being followed.
- (vi) As such there is no any active OB dump at present. OB is being used for concurrently back filling of the mined out area for reclamation purpose.
- (vii) Garland drains of appropriate size, gradient and length have been made around the active mining pits coupled with arrester to arrest silt from soil and drains are being maintained. The drains are regularly desilted before the monsoon. The Water so collected are being used for green belt development and watering the mine area. Sump of adequate capacity is developed.
- (viii) We undertake that no natural water course is obstructed during mining operation.



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- (ix) Controlled blasting is being practiced in the mine only in day time. Wet drilling Machines are being used during drilling operations. Nonel & effective blast design are used to control blast vibration and fly rocks.
- (x) Total 52.31 Ha. has been afforested till date. The plantation in reclaimed area has been carried out as per plan. The density is being maintained about 2500 plant per hectare with the species like Amla, accasia, Kashia Samia, mango, babul, pears & guava etc. Social forestry is also being encouraged among the local villagers. Year wise plantation is enclosed as annexure-C.
- (xi) The ground water table does not intersect during our mining operation because of shallow depth of mining. Rainwater harvesting structures & small ponds/well has been constructed within the lease area to augment ground water resource. Coal tar road has been constructed upto pit head to reduce dust problem and use of water for water spraying purpose.
- (xii) Regular water spraying with 12 KL water tanker in the mine lease hold area is being carried out regularly to control air pollution. The ambient air quality is within the stipulated norms.
- (xiii) Regular monitoring of ground water quality is being carried out. The analysis reports are being submitted to Regional Office, CECB, Ambikapur and other regulating authority. Rainwater harvesting structures & small ponds has been constructed within the lease area. Regular monitoring of ground water level is being carried out. Water analysis report & level report are being submitted to CECB Raipur and Ambikapur as applicable.
- (xiv) Rain water harvesting ponds has been made at lease hold area.
- (xv) Ground water NOC has been obtained from the competent authority for domestic/drinking purpose.
- (xvi) All efforts are being taken to conserve and protect existing ecological status of the project area. Important measures we are taking for conservation of flora and fauna are as follows.
- a) Company have been provided solar LED torch and florescent jacket to Staff of forest department ,Ambikapur for patrolling and monitoring the movement of wildlife ,encroachment, cutting ,poaching ,fire etc. ,
- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness programme related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc are being organized.



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- e) Controlled blasting is being carried out so as reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity.
- (xvii) Regular and periodic maintenance of HEMM is being carried out for control of vehicular emission in mines area. The bauxite ore are transported in trucks with tarpaulin cover. Vehicle used for transportation are having valid permit. No overloading of ores for transportation is allowed.
- (xviii) The report has been submitted to ministry. The rehabilitation of land oustees is not involved in the project. As a part of CSR activities company formation of SHG group to facilitate promotion of economic opportunity to local indigenous people is being carried out on regular basis. Detailed latest CSR report enumerating this is attached in Annexure E.
- (xix) Company has provided to all workers with personal protective equipment and training are also being imparted to them for safety & health in our Group vocational training centre – Samri is being continued. One doctor having MBBS qualification has been appointed for facilitation of OHS. All employees working in the mine have been under gone through medical test as per Mines ACT-1952.
- (xx) We accept the condition. IBM is competent authority to approve the final mine closure plan. Based on the present resource estimate, and peak rated production capacity, the tentative balance life of mine is around 29 years. However after completion of further detailed exploration programme, the resource estimate vis-a vis balance life of mine is subject to change. Thus Final closure mine plan will be submitted within prescribed timelines in accordance with law to competent authority.

**(B) General Condition.**

- (i) No change in mining technology and scope of working will be made without approval of MOEF New Delhi. We accept the condition.
- (ii) Calendar plan is being followed and there is not any change in calendar plan.
- (iii) The suggestions of local forest department are being implemented for conservation of flora and fauna in and around lease hold area. Important measure being implemented for conservation of flora and fauna are as follows.
- a) Company have been provided solar LED torch and florescent Jackets to Staff of forest department, Ambikapur for patrolling and monitoring the movement of wildlife ,encroachment, cutting ,poaching ,fire etc.

  
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- b) Veterinary camp is being conducted for immunization of cattle with the help of block veterinary staff.
- c) Awareness programme related to wildlife conservation is being conducted.
- d) Eco-development activities like poultry, piggery, bee keeping etc are being organized.
- e) Controlled blasting is being carried out so as reduce vibration and noise. Such operation is being carried out in day time only and its use is minimized.
- f) Plantation is regular activity.
- (iv) Ambient Air quality monitoring is being carried out as per guideline and is being followed.
- (v) Data of ambient air quality (RPM, SPM, SO<sub>2</sub>, and Nox) are being submitted to CECB and are being submitted to other regulatory authorities as per guidelines. Data of ambient air quality (RPM, SPM, SO<sub>2</sub> and Nox ) from Oct. 18 to March-19 is enclosed as annexure-II.
- (vi) Fugitive dust emission from generating sources is being controlled. The dust extractor, wet drilling, regular water spraying with 12 KL water tanker in the mine lease hold area is being carried out regularly.
- (vii) The noise level in working area is being maintained below the limit prescribed and will be maintained. The operators of HEMM are being provided earplug/muffs. The proper maintenance of HEMM is being carried out to control noise emission.
- (viii) No waste water is generated from the mine however as suggested measures will be taken if required.
- (ix) Company has provided to all workers with personal protective equipment and training are also being imparted to them for safety & health in our Group vocational training centre – Samri is being continued as per guidelines.
- (x) Periodical and Initial medical examination of all workers are being carried out as per provision of Mines Act.
- (xi) Environment cell is already in place at Samri Mines Division headed by Head (Mines) and comprises of suitable qualified persons. Constitution of Environment Management cell is enclosed in Annexure-D.
- (xii) Financial closure plan not applicable as it is an operational mines. In case of final closure of mine, the information will be submitted to Regional Office, Ministry of Environment & Forests, Bhopal.



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- (xiii) Adequate fund provision is already earmarked for environmental protection measures and will not be diverted to other purpose. The year wise expenditure is being submitted to concern authorities as per guidelines.
- (xiv) Financial closure plan not applicable as it is an operational mines. In case of final closure of mine, The same information will be submitted to Regional Office, Ministry of Environment & Forests, Bhopal.
- (xv) All cooperation is being extended to regulatory authorities.
- (xvi) Although no suggestion/representation has been received by any Panchayat/Local NGO while processing the proposal. However we have forwarded the copy of clearance letter to Panchayat in our area. The copy of same has been already submitted to your good office.
- (xvii) The copy has been displayed by CECB in Surguja Collectorate.
- (xviii) The information regarding environment clearance has been published in two local new papers namely Hari Bhumi & Ambika Vani. The copy of same has been already submitted to your good office.

Hope the above compliance will be found in order.

**Yours truly,**

(For Hindalco Industries Limited)



**(R R P Ambastha)**

**Agent of Mines.**

**Agent of Mines**

**Samri Mines Division**

**Hindalco Industries Ltd**

Encl. : As Above