

21.11.2014


**Status of Compliance from April-2014 to September-2014 of Environmental Condition laid down by MOEF**

**Tatijharia Bauxite Mine**

The status of compliance of the conditions (as per point no.3) with reference to the environment clearance letter no.J-11015/337/2007-IA. II(M) dated 9.8.2012 of Ministry of Environment & Forests, New Delhi, to maintain the production capacity of Tatijharia Bauxite Mine as under.

**A Specific condition:-**

- (i) The wild life management plan has been approved.
- (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- I).
- (iv) The mining operation is restricted to well above ground water table during currency of mining operation. The ultimate depth of working will be about 14 meters below whereas the water table in the core zone is about 50-52 meters.
- (v) Top soil and solid waste is being utilized for simultaneous back filling of mined out area for reclamation purpose and practice is followed.
- (vi) OB is stacked at earmark location and slope of dump is maintained less than 28 degree. All protective measure such as retaining walls, bunds
- (vii) and also plantation on available land are being taken to prevent erosion of soil.
- (viii) Garland drains have been made around the active mining pits coupled with arrester to arrest silt from soil and dumps are maintained. The garland drains are regularly desilted before the monsoon.

  
-(M. K. Nayak)  
Agent of mines  
Samri mines Division  
Jindalco Industries Ltd

- (ix) We undertake that no natural water course is obstructed during mining operation.
- (x) Controlled blasting is in practiced in the mine. Dust extractors are being used during drilling operations. Cord relay & effective blast design are used to control blast vibration and fly rocks. Blasting is carried out only in day hours.
- (xi) The plantation in reclaimed area is carried out as per plan and is carried out as suggested. The density is being maintained about 2500 plant per hectare with the species like jatorpha, Kasia-Samia, mango, babul, pears, & guava etc. Social forestry is also being encouraged among the local villagers.
- (xii) The ground water table does not intersect during our mining operation because of shallow depth of mining
- (xiii) 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.
- (xiv) 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.
- (xv) Till date three rain water harvesting ponds has been made at lease area.
- (xvi) If required, the permission will be taken from competent authority.
- (xvii) No endanger fauna is present in mines area however all possible measures is taken to prevent ecological status of project area.
- (xviii) 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.
- (xix) All workers are provided personal protective equipment and training are also being imparted to them for safety & health, sanitation and will be continued. Health awareness camps including HIV are organized for all workmen. One doctor having MBBS qualification has been appointed for facilitation of OHS. The records related to initial and periodical medical examination of all workmen is maintained.
- (xx) We accept the condition.

**(B) General Condition.**

- (i) No change in mining technology and scope of working will be done without approval of MOEF New Delhi.


- (ii) Calendar plan will be followed and there will not be any change in calendar plan.
- (iii) The suggestion of local forest department will be implemented for conservation of flora and fauna in and around lease hold area.
- (iv) Ambient Air quality monitoring is being carried out as per guideline and will be followed.
- (v) Data of ambient air quality (RPM, SPM, SO<sub>2</sub>, Nox) are being submitted to CECB and will be submitted to other regulatory authorities as per guidelines.
- (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 are 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) All workers are provided personal protective equipment and training are also being imparted to them for safety & health and will be continued as per guidelines.
- (x) Periodical and Initial medical examination of all workers are being carried out as per provision of Mines Act.
- (xi) Separate Environment cell is already in place at Samri Mines Division headed by GM (Mines) and comprises of suitable qualified persons.
- (xii) In case of final closure of mine the information will be submitted to Regional Office, Ministry of Environment & Forests, Bhopal.
- (xiii) Adequate fund provision is already earmarked for environmental protection measures and will not be diverted to other purpose. The year wise expenditure will be submitted to concern authorities as per guidelines.
- (xiv) The same will be intimated to Regional Office, Ministry of Environment & Forests, Bhopal.
- (xv) All cooperation is being extended to regulatory authorities and will be extended as earlier.
- (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 Balrampur 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

  
(M K Nayak)  
Agent of Mines  
Agent of mines  
Samri mines Division  
Hindalco Industries Ltd  
Encl. : As Above

~~Annexure - B~~  
(48)

Annexure - II

TELEGRAM : PARYAVARAN,  
NEW DELHI  
दूरभाष :  
Telephone :  
टेलिग्राफ (द्विभाषीय) :  
Telex : (bi-lingual) : W-55185 DOE IN  
FAX : 4360578

TATIJHARIA

भारत सरकार  
पर्यावरण एवं वन मंत्रालय  
GOVERNMENT OF INDIA  
MINISTRY OF ENVIRONMENT & FORESTS  
पर्यावरण भवन, नं०. ३०. प्रो. कॉम्प्लेक्स  
PARYAVARAN BHAWAN, C.G.O. COMPLEX  
लूधी रोड, नई दिल्ली - 110003  
LOOHI ROAD, NEW DELHI-110003  
Dated: 17<sup>th</sup> March, 1996.

No.3-23/95-FC

To  
The Secretary (Forests)  
Government of Madhya Pradesh  
Bhopal.

*Sf*  
Suraj Gupta  
R.O.P.  
R.O.P./N.G.P./348/2006/A

Sub: Diversion of 514.019 ha. of revenue forest land in  
favour of M/s HINDALCO Industries Ltd. for Bauxite  
mining in District Sarguja.

Sir,  
I am directed to refer to your letter no.F.5/19/95/10/3  
dated 9.3.95 on the above mentioned subject seeking prior  
approval of the Central Government in accordance with Section-2  
of the Forest (Conservation) Act, 1980 and to say that the  
proposal has been examined by the Advisory Committee constituted  
by the Central Government under Section-3 of the aforesaid  
Act.

2. After careful consideration of the proposal of the State  
Government and on the basis of the recommendation of the above  
mentioned Advisory Committee, the Central Government hereby  
conveys its approval under Section-2 of the Forest (Conservation)  
Act, 1980 for diversion of 514.019ha. of revenue forest land  
in favour of M/s HINDALCO Industries Ltd. for Bauxite mining  
in District Sarguja subject to the following conditions:

- 1) Legal status of forest land shall remain unchanged.
- 11) Compensatory afforestation shall be carried out over  
double the degraded forest land at the project cost.

APPROVED

- (iii) Acclamation of the mining area will be done in consultation with the State Forest Deptt. at the project cost as per plan prepared in this regard.
- (iv) Delineation of the mining area will be done on the ground at the project cost.
- (v) Forest land will not be used for construction of buildings etc. and any purpose other than those mentioned in the proposal.
- (vi) Lease period shall remain coterminus with lease under MWID Act, subject to maximum of 20 years.
- (vii) Free fuelwood will be provided to the labourers and staff working at the project site at the project cost.
- (viii) Any other condition the State Govt. may impose.
- (ix) This clearance is subject to the environmental clearance of the project under the Environment Protection Act.

Yours faithfully,

( R.K. CHAUDHRY )  
Asstt. Inspector General of Forests.

Copy to:

- 1. The Principal Chief Conservator of Forests Government of Madhya Pradesh, Bhopal.
- 2. Nodal Officer, Office of the Principal Chief Conservator of Forests, Govt. of Madhya Pradesh, Bhopal.
- 3. The CCF (Central), Regional Office, Bhopal.
- 4. RO(HQ), New Delhi.
- 5. Guard file.

2. 4. 19. 2. 96.  
( R.K. CHAUDHRY )  
AIGF.

APPROVE



**CHHATTISGARH ENVIRONMENT CONSERVATION BOARD**  
**Commercial Complex, Housing Board Colony,**  
**Kabir Nagar, Raipur (C.G.)**

No. 1976 ITS/CECB/2014  
 To,

Raipur, dated: 02/7/2014

✓ M/s Hindalco Industries Limited,  
 (Tatijharia Bauxite Mine)  
 Village- Tatijharia, & Betapani,  
 Tehsil-Samri,  
 District- Balrampur (C.G.)

*Recd:*  
  
 7/7/14.

Sub: - Renewal of consent of the Board for Mining of Bauxite Ore Mine under section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

- Ref: - 1. Consent of the Board for Bauxite Ore Mine issued under section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 6886/TS/CECB/2007 Raipur, dated: 24/12/2007.
2. Last renewal of the Board for Bauxite Ore Mine issued Under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 vide letter no. 1827/TS/CECB/2013 Raipur, dated: 05/07/2013.
3. Your application letter no. HIL/SAM/CECB/119/2013/7, Dated: 26/07/2013 and subsequent correspondence ending dated: 06/02/2014.

--: OO :--

With reference to your above application, consent is hereby renewed for a period of two years from 01/12/2013 to 30/11/2015, subject to the fulfillment of the terms and conditions incorporated in the consent letter no. 6884/TS/CECB/2007 Raipur, dated: 24/12/2007, subsequent renewal of consent issue by Board and additional conditions mentioned below.

This renewal of consent is valid for production capacity of :

Name of Product	Production Capacity
Mining of Bauxite Ore	4.0 Lakhas Tonnes Per Year [Four Lakhs Tonnes Per Year]

**Additional Conditions**

1. Industry shall operate and maintain the existing pollution control systems regularly to ensure the emission of air pollutants within the prescribed emission standard the all time. Industry shall install some additional fixed type water sprinklers in haul roads fapproach roads for dust suppression. The industry shall also maintain the ambient air quality in and around the mine lease area within latest prescribed limits.

- 1 -

2. All internal roads shall be made pucca. Good house keeping practices shall be adopted by the industry. Dust muck generated on the road shall be dispose doff properly.
3. Blasting operations shall be carried out as per the standards prescribed by Director General of Mine Safety.
4. Industry shall transport Bauxite Ore in duly covered vehicles to avoid dust emission during transportation.
5. Industry shall submit Environment Statement to the Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31<sup>st</sup> March on or before 30<sup>th</sup> September every year.
6. Extensive tree plantation shall be carried out in the reclaimed areas and with mining lease area to the plants.

Please acknowledge the receipt of this letter.

For & on behalf of  
Chhattisgarh Environment Conservation Board Raipur (C.G.)

  
**Member Secretary**

Chhattisgarh Environment Conservation Board  
Raipur (C.G.)

Endt. No. /TS/CECB/2014  
Copy to: -

Raipur, dated: \_\_\_ / \_\_\_ /2014

Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Ambikapur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.

  
**Member Secretary**

Chhattisgarh Environment Conservation Board  
Raipur (C.G.)







**CHHATTISGARH ENVIRONMENT CONSERVATION BOARD**  
Commercial Complex, Housing Board Colony,  
Kabir Nagar, Raipur (C.G.)

No. 1974/ITS/CECB/2014

Raipur, dated: 02/17/2014

To,

✓ M/s Hindalco Industries Limited,  
 (Tatijharia Bauxite Mine)  
 Village- Tatijharia, & Betapani,  
 Tehsil-Samri,  
 District- Balrampur (C.G.)

Recd  
  
 7/17/14

Sub: - Renewal of consent of the Board for Mining of Bauxite Ore Mine under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974.

- Ref: - 1. Consent and Last renewal of consent of the Board for Mining of Bauxite Ore Mine issued under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974. vide letter no. 6884/TS/CECB/2007 Raipur, dated: 24/12/2007.
2. Last renewal of the Board for Mining of Bauxite Ore Mine issued under section 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 vide letter no. 1826/TS/CECB/2013 Raipur, dated: 05/07/2013.
3. Your application letter no.HIL/SAM/CECB/119/2013/7, Dated: 26/07/2013 and subsequent correspondence ending dated: 06/02/2014.

--: 00 :--

With reference to your above application, consent is hereby renewed for a period of two years from 01/12/2013 to 30/11/2015, subject to the fulfillment of the terms and conditions incorporated in the consent letter no. 6884/TS/CECB/2007 Raipur, dated: 24/12/2007, subsequent renewal of consent issue by Board and additional conditions mentioned below.

This renewal of consent is valid for production capacity of :

Name of Product	Production Capacity
Mining of Bauxite Ore	4.0 Lakhas Tonnes Per Year [Four Lakhs Tonnes Per Year]


**Additional Conditions**

1. Industry shall ensure the treated effluent quality within prescribed effluent standards all the time. Industry shall not discharge effluent out side the mine lease area in any circumstances; hence zero discharge condition shall be maintained all the time.

2. All internal roads shall be made pucca. Good house keeping practices shall be adopted. Dust muck generated on the road shall be disposed off properly.
3. Bauxite Ore shall be transported in duly covered vehicles.
4. Industry shall submit Environment Statement to the Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31<sup>st</sup> March on or before 30<sup>th</sup> September every year.
5. All the solid waste rejects shall be disposed off properly and reclaimed scientifically. Industry shall obtain letter of authorization under Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 (as amended up to date) from the Board (If required).
6. Extensive tree plantation shall be carried out in the reclaimed areas within the mining lease area.

Please acknowledge the receipt of this letter.

For & on behalf of  
Chhattisgarh Environment Conservation Board Raipur (C.G.)

  
**Member Secretary**  
Chhattisgarh Environment Conservation Board  
Raipur (C.G.)

Endt. No. /TS/CECB/2014

Raipur, dated:   /  /2014

Copy to: -

- 1- Regional Officer, Regional Office, Chhattisgarh Environment Conservation Board, Ambikapur (C.G.). Please ensure compliance and report, if any condition/conditions are violated by the industry.
- 2- Cess Section, Chhattisgarh Environment Conservation Board, Raipur (C.G.).

  
**Member Secretary**  
Chhattisgarh Environment Conservation Board  
Raipur (C.G.)



**Lease wise Production 2013-14**

<b>Lease</b>	<b>Production (M.T.)</b>
Samri	450449
Kudag	51724
Tatijharia	339284
<b>TOTAL</b>	<b>841457</b>

  
(*M. K. Nayak*)  
Agent of mines  
Samri mines Division  
Hindalco Industries Ltd

Lease wise Details 2014-15(April 14 to September 14)

Lease	Mined out Area (Hect.)	Reclaimed Area (Hect.)	Plantation Area (Hect.)	No. of Sapling
Samri	2.841	2.413	5.150	12850
Kudag	0.389	0.665	2.230	5575
Tatijharia	1.640	1.419	3.020	7550
<b>TOTAL</b>	<b>4.870</b>	<b>4.497</b>	<b>10.400</b>	<b>25975</b>


  
Mr. K. Nayak  
Agent of mines  
Samri mines Division  
Hindalco Industries Ltd

Annexure-VII

Actual Expenditure incurred in Environment Management Plan:-  
Samri Bauxite Mine Division (it includes Samri, Tatijharia & kudag Lease )  
Hindalco Industries Limited

SI No-	Environment Protection Measures		Capital cost (Lacs) Year 2014-15
1	Pollution Control	Silt check-up dam	1.25
		Parapet walls	2.25
		Water sprinkler	
2	Pollution Monitoring	This is done by competent authority	
3	Reclamation/Rehabilitation of mined out area	This is the part of mining work	
4	(Construction of mines road within Lease area.)		800.00
5	Wild life Management Plan		180.00
	Total Expenses		983.50

- Environment monitoring jobs has been out sourced to Annacon Lab, recognized by MoEF (GOI) & NABL etc.
- One centralized nursery has been established at Samri mines among three leases viz, Samri, Tatijharia & Kudag.
- Reclamation and rehabilitation is part of mining operation. Mined out area has been backfilled by using mines rejects, laterite, morrum and at the top of surface by top soil. As per type of the land we decide for cultivation or planting species. Cost of reclamation /rehabilitation already included in the mining operation.
- Construction of mines road within Samri, Tatijharia and Kudag lease.

  
(M. K. Nayak)  
Agent of mines  
Samri mines Division  
Hindalco Industries Ltd

Annexure-VII

**Actual Expenditure incurred in Environment Management Plan:-**

Composite cost during the year 2014-15 (Apr -14 to Sept-14) for environment protection & pollution control by Samri Mines division, it includes Samri Bauxite Mine , Tatijharia Bauxite Mine & Kudag Bauxite Mine of Chhattisgarh state.

SI No-	Environment Protection Measures	Actual Cost (Lacs)
1	Pollution Control	2.70
2	Environment Monitoring	3.15
3	Green Belt	8.00
4	Reclamation/Rehabilitation of mined out area	--
5	Health Care	5.25
	Total	19.10

- Environment monitoring jobs has been out sourced to Annacon Lab, recognized by MoEF (GOI) & NABL etc.
- One centralized nursery has been established at Samri mines to consider availability of sapling and miscellaneous arrangement among three leases viz, Samri, Tatijharia & Kudag.
- Reclamation and rehabilitation is part of mining operation. Mined out area has been backfilled by using mines rejects, laterite, morrum and at the top of surface by top soil. As per type of the land we decide for cultivation or planting species. Cost of reclamation /rehabilitation already included in the mining operation.

  
(M. K. Nayak)  
Agent of mines  
Samri mines Division  
Hindalco Industries Ltd