

## Registered Post

The Additional PCCF, Ministry of Environment, Forests & Climate Change Regional office (West Central Zone), Ground Floor, East Wing, "New Secretary Building" Civil lines, Nagpur - 440001

16/10/2018

Subject: Compliance Status of Environment Clearance conditions

Dear Sir.

We have been granted Environment Clearance to our Dhangarwadi Bauxite Mines on 5th of February 2007 vide clearance No J-11015/406/2006-IA.II(M).

We are herewith submitting the compliance against the conditions laid down in the Environment Clearance; for the 6 months duration (April'18 to September'18) along with the environment monitoring reports of Air, Water and Noise quality for the

Hope you will please find the above in order.

Thanking you,

Yours very truly,

Mainak Chakraborty Vice President - Mines

Encl. A/a

- The Chief Conservator of Forests (Central) Ministry of Environment & Forests Regional office, BHOPAL.
- 2. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, DELHI - 110032
- 3. The Regional Officer Maharashtra Pollution Control Board Udyog Bhawan, KOLHAPUR.

Hindalco Industries Limited

Durgmanwadi Mines: PO Radhanagari - 416 212, Dist. Kolhapur, Maharashtra, T: +91 02321 202072, 202178, 133, Kolhapur Office: T:+91 0231 2661458, 2666621, 2021461, 2021462

Registered Office: Ahura Centre, 1<sup>st</sup> Floor, B-Wing, Mahakali Caves Road, Andheri (East), Mumbai - 400 093, India T: +91 22 6691 7000 | Fax: +91 22 6691 7001 | E: hindalco@adityabirla.com | W: www.hindalco.com | Corporate ID No.: L27020MH1958PLC011238

## ENVIRONMENT CLEARANCE COMPLIANCE STATUS ENVIRONMENT CLEARANCE No. J-11015/406/2006-IA.II(M) dt. 13/04/2007 DHANGARWADI BAUXITE MINES

_Sr. No.	CONDITIONS	COMPLIANCE
	pecific Conditions :-	JOHN LIANGE
i)	Top soil to be stacked properly with proper slope with adequate safeguards and to be backfilled for reclamation and rehabilitation of mined out area.	removal has been used for restoration
ii)	Overburden shall be stacked at earmarked dump site(s) only and shall not be kept active for long period. The maximum height of the dump shall not exceed 30 m, each stage shall preferably be of 10 m and over all slope of the dump shall not exceed 28°. The mine pit area to be reclaimed by backfilling the OB in a phased manner. The OB dumps to be scientifically vegetated with suitable native species to prevent erosion and surface run off. Monitoring and management of rehabilitated areas to be continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests on six monthly basis.	Overburden dumps are stacked separately as per the guidelines and the same will be used for backfilling in mined out area.  Plantation has been carried out on OB dumps with native shrub species namely Karvi to prevent erosion and surface runoff.  Backfilling of mined out area is being done simultaneously and backfilled area has been scientifically vegetated with indigenous species.  Compliance status is being submitted on six monthly.
	Garland drains to be constructed to arrest silt and sediment flows from watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.  Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump and sump capacity shall 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 shall also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and desilted at regular ntervals.	Garland drains have been provided to arrest the silt and sediment flows from the mine area.  The flow from the settling tanks is then channelised through check dams. Drains and check dams are de-silted and maintained properly.  The storm-water flowing through check dams is monitored and found within limit.

	Drilling and blasting shall be by using dust extractors/wet drilling.  Drilling and blasting is being carried out by using mist water jet (wet drilling).  The lease area has natural green belt with indigenous species which is undisturbed and maintained.  On slope of the OB dump plantation of local species "Karvy" to control slope stability and soil erosion has been carried out with the help of expertise / Government agencies.
u Y	A nursery has been developed for indigenous and local species (around 2000) for plantation in mined out area at the mines.
	The plantation is carried out every year as per plan. Till date 34,150 saplings have been planted & restored about 18.0 Ha area.
Vi	measures to augment ground water resources in the area in consultation with the Regional Director Country and the suitable conservation Water harvesting pond has been developed in the mined out areas as per the mine closure planning.
	Trater Board.
9	Prior permission from the competent Already obtained.  authority to be obtained for drawl of ground water, if any.
N	Vehicular emissions to be kept under ontrol and regularly monitored. Ideasures to be taken for maintenance of all heavy

and in transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be over loaded.  All transport vehicles are covered with tarpaulin. The vehicles are covered with tarpaulin. The vehicles are covered with tarpaulin. The vehicles are carrying beauxite as per RLW.  X) At the end of the mining, the void shall be used as water body for water conservation and recharging of the ground water.  Xi) A Final Mine Closure Plan, alongwith details of Corpus Fund, should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.  B) General Conditions:  i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests  ii. No change in the calendar plan including excavation, quantum of mineral bauxite & waste shall be made  iii. Conservation measures for protection of flora & fauna in the core & buffer zone shall be drawn up in consultation with the local forest and wildlife department.  Mined out area is scientifically afforested. For this we procure manure, vermi compost to improve the condition of plantation base. We had engaged experts to implement afforestation activity. Care has been taken to plant mostly local flora along with some exotic species.  The core area is fenced with parapet wall and the natural vegetation is protected.  Alt the end of the wichies are carrying beauxite as per RLW.  Alt the end of the mining, the void will be used as water body for water conservation and recharging of the ground water.  Alt the end of the mining, the void will be used as water body for water conservation and recharging of the ground water.  Alt the end of the mining, the void will be used as water body for water conservation and recharging of the ground water.  Alt the end of the mining, the void will be used as water body for water conservation and recharging of the ground water.  Alt the end of the mining, the void will be used as water body for water conservation and recharging		and in transportation	
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	V.	Regular submission of data on ambient	The monitoring is carried out as per the

	air	quality (RPM_SPM_SSS				
	ine.	quality (RPM, SPM, SO2 Ministry including its	Pogion -		ata is submitted re	gularly.
	Offic	ce and the State Pollution of once in six months.	Contro	The summer	and monsoon	season
-				reports are attac	hed.	
	vi. Regi	ular control of fugitiv	e dus	t Truck mounted	mobile water ta	and and
	Spray	sions from all the source	s. Wate	being used for	dust suppression	anker is
	loadi	ying arrangement on hau ng and unloading and at	Il roads,	mining and trans	portation.	r during
	Pont	s shall be provided and	nroneriv			
	main	tained.	p. openy			. 1
	vii. Take	measures for control of	of noise	The		
	levels	below 85 dBA in the	e work	THE THEOLOGICACI	at the mine perip	hery is
	GLIVILO	onment. Workers engage	: bon	and otario	lard. All the v	workers
	with e	tions of HEMM, shall be p ar-plugs / muffs.	rovided	engaged in ope provided with ear-	pluas/muffe	IM are
					rago, mang,	1
V	iii. Prope		nt of	There is no indust	riol was at a second	
	standa	rial waste water to conform	n to the	is no mineral proce	essing is carried a	s there
	(E)	ards prescribed under GS	SR 422	į, i da	seeing is carried o	out.
		it.19 <sup>th</sup> May, 1993 and ober, 1993 or as amende	d 31 <sup>st</sup>			
	on e to	) time. Oil and grease trai	n shall			
	DG . III	stalled before discharg	ge of		•	
	worksh	op effluents.				
i	1.01100		and	Regular training		
	informa	ition on safety & health as	spects	Regular training to and Health aspects	employees on Sal	fety
	a pro	Ovide protective respi	iratoru	workers engaged in	is provided and a	Ill the
	areas	to personnel working in	dusty	provided dust mask	S.	
X.	0110010		tional .	The desired		
	health	surveillance program of	F 41mm .	The health surveilla	nce is done once	in a
	MOLKELS	to observe any contract	tions	ear for all employed cases of occupation	ees and there ar	e no
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		e measures, if needed.	1			
Xi.	Set-up s	eparate environmental	A	qualified person be	no hora	
	managei personne	ment cell with suitable qua	lified th	qualified person have unit level. A full fl	is been employed	at
			0	ell operates at the c	orporate level	nt
xii.	Inform th	ne Regional Office locate	d at C			
	phopai	regarding date of final	noi-si	omplied in due cour	se.	
	ciosures	and final approval of	tho			
	and the	by the concerned author date of start of the concerned author of the concerned	- 1			
	developm	and of Staff Of I	and			
xiii.						
AIII,	-	funds earmarked	for Th	e separate funds l	nave been alloca	ted
	be kept	ental protection measures in separate account a	, 101	implementation	Of environmen	Sant II
	should n	Of he disert to		otection measures	along with item wi	ina
			. DIE	eakup such as fur	nished below. T	he

	purpose. Yearwise expenditure sha be reported to the Ministry and it	expenditures are upto September-2018.			
	Regional Office.	SO. NO.	Shop Order Description	Expenditure for the year 2018-19 (Rs.) Upto Sep-2018	
			Environment Monitoring	1,87,500.0	
		2	Dust suppression	1,95,297.0	
		3	Statutory Compliance	0.0	
		4	Environment Others	4,72,484.0	
		5	Mine restoration & rehabilitation	3,95,515.0	
		6	NURSERY AND PLANTATION	4,68,440.0	
xiv.	Inform the Regional Office located at	7	AFTERCARE	2,78,728.0	
YV.	project by the concerned authorities and the date of start of land development work.				
XV.	The Regional Office of this Ministry located at Bhopal should monitor compliance of the stipulated conditions. The project authority should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	operation to the officer(s) of the Regional			
xvi.	Copy of the clearance letter be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied.			
xvii.	State Pollution Control Board to display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's office / Tehsildar's Office for 30 days.	Complied.			

Advertise at least in two xviii. local newspapers widely circulated, one of 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 http://envfor.nic.in and a copy of the same shall be forwarded to the Regional Office of this Ministry located at Bhopal.

Complied.