



Ref No: HIL/LHD/GM (GEO)/MoEF/ 0085

Date: 25.05.2018

To,
The Additional Principal Chief Conservator of Forest (C)
Ministry of Environment, Forests and Climate Changes
Regional Office (ECZ), Ranchi-834002.

Sub: Compliance Report of EC conditions for Orsa (196.36ha) Bauxite Mining project of M/s Hindalco Industries Limited located in Gumla, Jharkhand for the period Oct'17 to March'18.

Ref: Environmental Clearance letter no J-11015/241/2006-IA II(M) dated 17th May 2007


Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for **Orsa (196.36 ha)** Bauxite Mining project of M/s Hindalco located in Gumla, Jharkhand for the period **Oct'17 to March'18**.

Hope you will find the same in order.

Thanking You

Yours Sincerely
FOR HINDALCO INDUSTRIES LIMITED


(Basudev Gangopadhyay)
GM (Geology)

Enclosure: - As Above

Copy to: Member Secretary, JSPCB, Ranchi
RO, JSPCB, Ranchi
CPCB, Zonal Office, Kolkata
<mef@ori.nic.in>, <mef@nic.in>, <mef.or@nic.in>, mef.or@nic.in

Compliance of conditions laid down in Environmental Clearance

ORSA BAUXITE MINES

Period: Oct'17- Mar'18

J-11015/241/2006-IA.II (M) Dated 17.5.2007

Sl No	Conditions	Compliance Status
Specific Conditions		
1	Environmental Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter OF Goa foundation Vs Union of India in writ petition (civil) no 460 of 2004, as may be applicable to this project	Noted.
2.	Environmental Clearance is subject to obtaining clearance from Wildlife (Protection) Act '1972 from the competent authority.	Earlier Wildlife Management plan has been submitted to Chief Wildlife Warden, Jharkhand vide letter no 75(vivid)/940 dated 22.10.2008. However, again a new Wildlife Management plan is being prepared and will be submitted to State Govt. in May/June 2018
3.	All the conditions stipulated by SPCB in their NOC shall be effectively implemented.	Noted and Agreed.
4	The environmental clearance is subject to approval of the state land use Department, Government of Jharkhand for diversion of agricultural land for non-agricultural use.	Mining Lease is granted by the State Govt. after due consideration and Cabinet approval on recommendation of DC who is the competent authority to give permission for using the agricultural land for non-agricultural purpose
5	Mining shall not intersect groundwater. The mine working shall be restricted to above ground water table. Prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.	Noted.
6	The project proponent shall ensure that the mining shall be carried out in small blocks and at a given point of time active mining shall not be more than 2.0 ha.	Noted.
7.	The project proponent shall ensure that no natural water course shall be obstructed due to any mining operations.	Noted.
8	Top soil, if any, shall be stacked properly with proper slope with adequate measures and should be used for reclamation and rehabilitation of mined out areas.	Noted. As on date, mine is not operational

9.	The overburden generated during the initial year shall be kept as temporary dump. Concurrent backfilling starts from the 2 nd year onwards and there shall be no external dump at the end of the mine life.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
10.	The entire excavated area of 155 ha shall be reclaimed, out of which 131 ha land shall be returned to raiyats for agricultural purpose and in 24 ha plantation shall be raised. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on six month basis.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
11	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. 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 monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for mine pit 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 setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
12	Dimension of the retaining wall at the OB benches within the mine to check run-off and siltation should be based on rainfall data.	Noted. As on date, mine is not operational
13	Plantation shall be raised in an area of 24.0 ha including a green belt of adequate width by planting the native species around the ML area, roads, reclaimed area etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 1500 plants per ha.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
14	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.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
15	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new	It is being monitored. Monitoring report is enclosed as Annexure-1 .

	piezometers during the mining operation. The monitoring should be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground water Authority and Regional Director Central Ground Water Board.	
16	Prior permission from the competent authority should be obtained for drawl of water from the surface water bodies.	Noted. As on date, mine is not operational
17	Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
18	Drills should either be operated with dust extractors or should be equipped with water injection system.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
19	Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibration and to arrest fly rocks and boulders should be implemented.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
20	Consent to operate should be obtained from SPCB prior to start of enhanced production from the mine.	There is no proposal for enhancement of production. As on date, mine is not operational
21	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and wastewater generated from mining operations.	Noted. As on date, mine is not operational
22	The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as Leopard, Indian Wolf, Indian elephant, Indian small civet, Indian Python, etc. Spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.	Earlier Wildlife Management plan has been submitted to Chief Wildlife Warden, Jharkhand vide letter no 75(vivid)/940 dated 22.10.2008. However, again a new Wildlife Management plan is being prepared and will be submitted to State Govt. in May/June 2018.

23	A Final Mine Closure plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.	Progressive Mine closure plan and Final mine closure plan (part) has been approved by IBM. FMCP for entire lease will be prepared & submitted in due time. Based on the present resource estimate, and peak rated production capacity mentioned in EC, the tentative balance life is around 6-7 years. However, after completion of further detailed exploration, the resources estimate vis-à-vis balance life of the mine may change based on final resource estimate, EC capacity and cut-off grade at that point of time.
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GENERAL CONDITIONS

Sl No	Conditions	Compliance Status
1	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest	Agreed & Noted
2	No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
3	Four ambient air quality-monitoring station should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Monitoring locations have been fixed and regular monitoring is being done. Monitoring Reports of AAQ data is attached as Annexure-1.
4	Data on ambient air quality (RPM, SPM, SO ₂ , and NO _x) should be regularly submitted to the Ministry including its Regional office located at Bhubneshwar and the State Pollution Control Board / Central pollution Control Board once in six months.	Monitoring Reports is attached as Annexure-1.

5	Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Noted. As on date, mine is not operational
6	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operation of HEMM, etc. should be provided with ear plug / muffs.	Noted. As on date, mine is not operational
7	Industrial waste water (workshops and waste water from the mine) Should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Presently, there is no generation of waste water from the mine as of now. The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
8	Personnel working in dusty areas should wear protective respiratory devices and they should also 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.	The compliance to this condition will be adhered to as applicable. As on date, mine is not operational
9	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied. A suitable environmental management cell has been developed with qualified personnel. Copy enclosed as annexure-3.
10	The project authorities should inform to the Regional Office located at Bhubneshwar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Provisions related to financial closure not applicable.
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 Bhubneshwar.	The funds earmarked for environmental protection measures are kept in separate account. Cost of environmental protection measures Annexed as annexure-2.
12	The Regional Office of this Ministry located at Bhubneshwar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s)	Agreed upon.

	of the Regional Office by furnishing the requisite data / information / monitoring reports.	
13	The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests its Regional Office, Bhubneshwar CPCB and State Pollution Control Board.	Duly submitted.
14	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied.
15	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Center and Collector's office / Tehsildar's Office for 30 days.	Displayed.
16	The project authorities should advertise at least in two local newspapers widely circulated, one of which locality concerned, within 7days 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 Bhubneshwar.	Already done and copies submitted.



Eco Ventures Pvt. Ltd.

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Mahabal Enviro Engineers Pvt. Ltd.

At Booty, Near PHED Colony, Behind Pump House, PO – RMCC,
District – Ranchi 834009

ORSA & CHIRO PLATEAU- ENVIRONMENTAL MONITORING REPORT

JANUARY TO MARCH 2018

For Mahabal Enviro Engineers Pvt. Ltd.

Vijay Pandey
SENIOR EXECUTIVE





Mahabal Enviro Engineers Pvt. Ltd.

Branch Office:

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

CONTENT

	LOCATION
A.	AMBIENT AIR QUALITY
1	Chirokukad Weigh Bridge
2	Kukad Village
3	Rajendrapur
4	Orsa Village
5	Near Chiro Kukud Mines Office
6	Near Saraidih Hospital
B.	NOISE LEVEL
1	Chiro Kukad Mining Area
C.	SPOT NOISE LEVEL
1	Near Poclain at Chiro Kukad Mine (152.57 ha.)





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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0084/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Chiro Kukad Weigh Bridge	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: ChiroKukad Weigh Bridge				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	82.5
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	45.7
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	4.8
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	6.5
05.	Ammonia (NH ₃)	µg/m ³	400	10.8
06.	Ozone (O ₃)	µg/m ³	180	12.1
07.	Carbon Monoxide (CO)	mg/m ³	02	0.37
08.	Lead (Pb)	µg/m ³	1.0	0.03
09.	Nickel (Ni)	ng/m ³	20	2.5
10.	Arsenic (As)	ng/m ³	06	2.0
11.	Benzene (C ₆ H ₆)	µg/m ³	05	2.1
12.	Benzo (a) Pyrene	µg/m ³	01	0.40

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0085/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Kukad Village	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: Kukad Village				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	58.3
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	28.8
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	3.9
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	6.4
05.	Ammonia (NH ₃)	µg/m ³	400	9.6
06.	Ozone (O ₃)	µg/m ³	180	12.8
07.	Carbon Monoxide (CO)	mg/m ³	02	0.40
08.	Lead (Pb)	µg/m ³	1.0	0.03
09.	Nickel (Ni)	ng/m ³	20	2.7
10.	Arsenic (As)	ng/m ³	06	2.1
11.	Benzene (C ₆ H ₆)	µg/m ³	05	2.0
12.	Benzo (a) Pyrene	µg/m ³	01	0.40

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0086/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Rajendrapur	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: Rajendrapur				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	66.3
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	32.1
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	3.6
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	6.9
05.	Ammonia (NH ₃)	µg/m ³	400	10.6
06.	Ozone (O ₃)	µg/m ³	180	12.8
07.	Carbon Monoxide (CO)	mg/m ³	02	0.34
08.	Lead (Pb)	µg/m ³	1.0	0.02
09.	Nickel (Ni)	ng/m ³	20	2.1
10.	Arsenic (As)	ng/m ³	06	2.0
11.	Benzene (C ₆ H ₆)	µg/m ³	05	3.0
12.	Benzo (a) Pyrene	µg/m ³	01	0.29

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0087/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Orsa Village	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: Orsa Village				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	62.5
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	31.2
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	3.9
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	5.7
05.	Ammonia (NH ₃)	µg/m ³	400	9.9
06.	Ozone (O ₃)	µg/m ³	180	12.6
07.	Carbon Monoxide (CO)	mg/m ³	02	0.31
08.	Lead (Pb)	µg/m ³	1.0	0.03
09.	Nickel (Ni)	ng/m ³	20	2.1
10.	Arsenic (As)	ng/m ³	06	2.3
11.	Benzene (C ₆ H ₆)	µg/m ³	05	2.1
12.	Benzo (a) Pyrene	µg/m ³	01	0.36

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0088/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Near ChiroKukud Mines Office	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: Near Chiro Kukud Mines Office				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	68.6
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	39.5
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	4.3
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	6.5
05.	Ammonia (NH ₃)	µg/m ³	400	11.2
06.	Ozone (O ₃)	µg/m ³	180	12.6
07.	Carbon Monoxide (CO)	mg/m ³	02	0.40
08.	Lead (Pb)	µg/m ³	1.0	0.03
09.	Nickel (Ni)	ng/m ³	20	2.7
10.	Arsenic (As)	ng/m ³	06	2.0
11.	Benzene (C ₆ H ₆)	µg/m ³	05	2.2
12.	Benzo (a) Pyrene	µg/m ³	01	0.30

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0089/2018-19	Date: 20 th April, 2018
Sample described by customer: AMBIENT AIR QUALITY MONITORING	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample type: AMBIENT AIR QUALITY MONITORING	
Marks on Sample: Location: Near Saraidih Hospital	
Sample collected on: 17.03.2018	

LOCATION / IDENTIFICATION: Near Saraidih Hospital				
Sl. No.	PARAMETERS	UNIT	Standard Limit	Concentration
01.	Particulate Matter (size less than 10 µm) PM ₁₀	µg/m ³	100	66.3
02.	Particulate Matter (size less than 2.5 µm) PM _{2.5}	µg/m ³	60	34.1
03.	Sulphur Dioxide (SO ₂)	µg/m ³	80	4.2
04.	Nitrogen Dioxide (NO ₂)	µg/m ³	80	6.6
05.	Ammonia (NH ₃)	µg/m ³	400	10.7
06.	Ozone (O ₃)	µg/m ³	180	12.1
07.	Carbon Monoxide (CO)	mg/m ³	02	0.26
08.	Lead (Pb)	µg/m ³	1.0	0.02
09.	Nickel (Ni)	ng/m ³	20	2.3
10.	Arsenic (As)	ng/m ³	06	2.1
11.	Benzene (C ₆ H ₆)	µg/m ³	05	2.0
12.	Benzo (a) Pyrene	µg/m ³	01	0.30

For Mahabal Enviro Engineers Pvt. Ltd.

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Hindalco Industries:

Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0090/2018-19	Date: 20 th April, 2018
Sample described by customer: Measurement of Noise	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample Description: Measurement of Noise	
Sampling Method: Instrumental, using Sound level Metter	
Data Collection Date: 17.03.2018	

Location/Identification	Unit	Limit (day)	Result	Limit (night)	Result
Chiro Kukad Mining Area	dB (A) L_{eq}	75	60.5	70	48.8

For Mahabal Enviro Engineers Pvt. Ltd.

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Environmental Monitoring Report

JANUARY – MARCH 2018

Report no: MEEPL/APR0091/2018-19	Date: 20th April, 2018
Sample described by customer: Measurement of Spot Noise	
Client Name: Hindalco Industries Limited	
Client Address: Lohardaga	
Postal Code: 835203	
State: Jharkhand	
Country: India	
Sample Description: Measurement of Spot Noise	
Sampling Method: Instrumental, using Sound level Metter	
Data Collection Date: 17.03.2018	

Location/Identification	Unit	Limit (day)	Result
Chiro Kukad Mines (152.57 ha.) Near Poclain	dB (A) Leq	75	70.6

For Mahabal Enviro Engineers Pvt. Ltd.

Vijay Pandey
SENIOR EXECUTIVE



BREAK UP THE COST OF ENVIRONMENTAL MEASURES DURING THE YEAR 2017-18

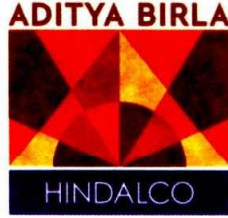
The composite cost during the year 2017-18 for environmental protection & pollution control by Jharkhand Mines division of M/s Hindalco Industries Ltd & M/s Minerals & Minerals Ltd for implementation of the suggested measures in EC at our all the operating mines in the state of Jharkhand-namely Pakhar (115.13 Ha), Pakhar (15.58 Ha), Pakhar (109.507 Ha), Pakhar (8.09 Ha), Pakhar (35.12Ha), Serengdag (140.06 Ha), Serengdag (155.81 Ha), Jalim & Sanai (12.14 Ha), Gurdari (584.19 Ha), Amtipani (190.95 Ha), Kujam I (80.97 Ha) Kujam II (157.38 Ha) and Bagru (75.41 Ha), Hisri New (14.55 Ha), Chiro kukud, Orsa pat(196.36 Ha), Bhusar (65.31 Ha)& Bimarla Bauxite Mines (134.52 Ha).

Sl No	Description	Budget (in Rupees) FY 2017-18	Actual (in Rupees) FY 2017-18 (from April'17 to Sep'2017)	Actual (in Rupees) FY 2017-18 (from Oct'17 to March'2018)
1	Pollution Control & Environment monitoring	1316000	651832	984450
2	Reclamation/ Back filing & Rehabilitation**	300000000	131262375	31383827
3	Green belt, Plantation & Water spraying arrangement	3400000	3373300	2921501
4	Rural Development	40000000	18500000	10439844

**Part of OB removed cost.



(Basudev Gangopadhyay)
Convenor (Quality & Environment)



Date: 03.04.17

Office Order

Environmental Cell has been re-constituted at Orsa Bauxite Mines (Area 196.36 Ha) comprising below mentioned team members. The team will ensure compliance of Environment Act, Regulation & Rule in respect of the said mines of Hindalco Industries Limited.

1. Mr. Rajesh Ambastha (Coordinator)
2. Mr. Tapas Gachhayat (Member)
3. Mr. Satyendra Sharma –Foreman (Member)
4. Mr. Narendra Singh –Mining Mate (Member)

Basudev Gangopadhyay
Convenor (Quality & Environment)

Annexure - 4

PRODUCTION, MINED OUT, BACKFILLED, PRODUCTION AND OVERBURDEN REMOVAL FROM April-17 to March-18

NAME OF THE MINES	MINING LEASE AREA (IN HA)	MINED OUT AREA (HA)	BACK FILLED AREA (HA)	PRODUCTION (In MT)	OVERBURDEN (In Cu.M)
Shrengdag Bauxite	155.81	4.37	2.91	236504.00	404146.00
Gurdari Bauxite Mines	584.19	10.72	6.30	324060.00	529722.00
Jalim & Sanai	12.14	1.75	0.70	36037.00	43750.00
Serangdag	140.06	1.00	0.70	43825.00	66636.00
Pakhar Buxite Mines	115.13	2.60	3.01	264505.00	400330.00
Pakhar Buxite Mines	8.09	0.00	0.00	0.00	0.00
Kujam-I	80.87	3.95	1.54	141655.00	254013.00
Kujam-II	157.38	6.97	6.93	291458.00	596397.00
Amtipani	190.95	7.05	6.81	149560.00	262112.00
Chiro-Kukud	152.57	3.54	3.59	90130.00	127590.00
Orsa Bauxite Mines	196.36	0.30	0.00	6620.00	38007.00
Hisri New	14.55	1.05	0.91	90001.00	46929.00
Bhusar	65.31	0.19	2.24	108666.00	209691.00
Bagru	75.41	0.00	0.00	0.00	0.00
Minerals & Minerals Limited					
Pakhar Buxite Mines	109.51	2.61	2.84	277605.00	414049.00
Pakhar Buxite Mines	15.58	0.46	0.29	28560.00	67552.00
Bimarla Bauxite Mines	134.53	9.92	8.39	156420.00	251775.00

(Basudev Gangopadhyay)
Convenor (Quality & Environment)