

BALCO/ENV/A-02(A)/2018/381

Nov 23, 2018

Shri Kanwarjit Singh APCCF (C)  
Ministry of Environment and Forest, Climate Change  
Regional Office (WCZ), Ground Floor  
East Wing, New Secretariat Building,  
Civil Line, Nagpur-440001

Sub: **Half yearly compliance status (April-2018 to September-2018)** for  
Chotia - II Captive coal mining.

Dear Sir,

Please find enclosed herewith the half yearly compliance report for the period **April-2018 to September-2018** of the Environmental Clearance No. J-11015/96/2004-IA-II(M) dated 17<sup>th</sup> June 2015 (EC transferred from M/s Prakash industries Limited to BALCO) for Chotia-II Captive coal mining.

We hope that the above is in line with the requirements under the referred Environmental Clearance. In case you would require any further information or clarification, we would be glad to furnish the same.

Thanking you,

Yours truly,

  
**Rajiv Kumar**  
Head – Chotia Mines

Copy to:  
Regional Officer, CECB, KORBA

**Compliance status on Environmental Clearance**  
**BALCO CHOTIA COAL MINES, KORBA (C.G.)**  
**Duration: April - 2018 to September - 2018**

1. MoEF Letter No: J – 11015/96/2004-IA.II (M), dated 18.07.2018.

**A. SPECIFIC CONDITIONS:**

S.No	GENERAL CONDITION	COMPLIANCE STATUS
(i)	The capacity of the project shall be 1 MTPA (opencast) for first 5 Years and 0.30 MTPA (underground) from 6th year till life of the mine.	Agreed.
(ii)	The environmental clearance for the capacity of 1 MTPA (opencast) shall be valid for a period up to one year. Meanwhile, the project proponent shall comply with the observations of the EAC for single EC against the combined mining lease and mining plan, to consider continuance of the project thereafter.	Agreed. An application has been submitted to MoEF&CC, New Delhi to combine ECs of Chotia I and Chotia II into Single EC against combined Mining Lease and Mine Plan vide letter no. Balco/Cho/EC/Aug/2018/001 dated 29.08.2018. It is enclosed as <b>Annexure-I</b>
(iii)	To control the dust production at source, crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	There is no crusher or in-pit belt conveyors at Chotia Mines
(iv)	Mitigative measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions as presented before the Committee, which would include mechanized sweeping, water sprinklers/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding, etc.	<b>Complied with.</b> Water sprinklers for suppressing dust in haul roads, face, loading sites have been provided.
(v)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	<b>Complied with.</b> Skill development training has been provided to villagers at IL&FS school available at BALCO Korba.
(vi)	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.	<b>Complied with.</b> Health camps are being organized in and around villages of Chotia.

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(vii)	Thick green belt of adequate width in the down wind direction of the project site shall be developed to mitigate/check the dust pollution. Plantation plan shall be prepared in consultation with the State Forest Department.	<b>Complied with.</b> Green belt has been developed inside the safety zone of the mine. Plantation program has been undertaken in consultation with Forest department.
(viii)	Mine water shall be disposed off after treatment.	<b>Agreed</b>
(ix)	The project proponent shall upgrade the road (black topping) connecting Chotia - II Coal Mine to the nearest State Highway ( Chotia- Chirimiri)	<b>Complied with.</b> The road connecting Chotia - II Coal Mine to the nearest State Highway (Chotia-Chirimiri) is being upgraded (black topping).
<b>4.1</b>	<b>The grant of EC is further subject to compliance of the generic conditions for OC as under :</b>	
<b>(a)</b>	<b>Mining</b>	
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	<b>Agreed.</b>
(ii)	No Change in mining method i.e. OC to UG , calendar program and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEFCC)	<b>Agreed.</b>
(iii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS)	<b>Agreed.</b>
(iv)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.	<b>Complied with.</b> The entire lease area of Chotia-II Mine is forest land and Forest Clearance has been transferred by MoEF&CC vide letter no F. No 8-64/2005 dated 18th May 2015.
<b>(b)</b>	<b>Land reclamation and water conservation</b>	
(i)	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office ( RO)	<b>Agreed.</b>

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(ii)	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approved Mining Plan and as per the permission of DGMS.	Complied and Agreed with.
(iii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post - mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective state government as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27th August , 2009 and subsequent amendments.	Agreed.
(iv)	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the "during mining"/"post mining" land use pattern, which is an integral part of the approved Mining Plan and EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and Climate Change/ regional Office on six monthly basis.	Agreed.
(v)	The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated area shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office on six monthly basis.	<b>Complied with.</b> The top soil is being stored at earmarked sites which will be further used for reclamation and plantation purposes. Simultaneous backfilling has been adopted in excavated area.

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(c)	Emissions, effluents and waste disposal	
(i)	Transportation of Coal, to the extent permitted by road shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values of PM10/PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.	Complied with. The coal dispatch trucks are covered with Tarpaulin. Mist type water sprinkling arrangement has been provided for control of dust pollution in Haul roads, loading/unloading, etc.,
(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area in a phased manner. The green belt comprising a mix of native species shall be developed all along the major approach/coal transportation roads.	Plantation in 7.5m safety belt zone has been completed and the same is being protected by double layer concertina fencing.
(iii)	The transportation of coal shall be carried out as per the provisions and route proposed in the approved Mining Plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	<b>Complied with.</b>
(iv)	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.	<b>Complied with.</b> Regular vehicle checkup system has been implemented and the vehicles engaged in mining & allied activities are allowed to operate after verifying PUC Certificate.
(v)	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	<b>Complied with.</b> Dust suppression is being done by Water Sprinklers at Coal stock pile, material transfer points, etc., No crushers or conveyors are installed at Chotia II Mine. Wet drilling is being practiced.
(vi)	Coal handling plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.	<b>Not applicable</b> There is no plan of Coal Handling plant at Mine site.

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(vii)	Ground water, excluding mine water, shall not be used for mining operation. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resource s.	<b>Complied with.</b> Rain water harvesting structures has been constructed in office complex and Bachelor's hostel for recharge of ground water. The design of Rainwater harvesting structures has been approved by Regional Director, CGWA–Raipur vide no. 35-1/NCCR/CGWA/Vol-X/038 dated 20th October 2016.
(viii)	Catch/garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted band accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.	<b>Complied with.</b> Garland drains will be provided all along the OB dumps to prevent run off water and flow of sediments directly into the river/water bodies. Water collected in the sump is used for dust suppression in haul roads, coal stock pile, etc., 5 check dams with estimated storage capacity of 4000KL each is in place. Plantation of native species will be made in toe of the dump.
(ix)	Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.	<b>Complied with.</b> ETP is in place to treat waste water generated from workshop and STP has been installed for treating domestic waste water inside the colony.
(x)	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	<b>Complied with.</b> Rain water harvesting structures has been constructed in office complex and Bachelor's hostel for recharge of ground water. The design of Rainwater harvesting structures has been approved by Regional Director, CGWA–Raipur vide no.

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		35-1/NCCR/CGWA/Vol-X/038 dated 20th October 2016.
(d)	<b>Illumination, Noise &amp; Vibration</b>	
(I)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The Report on the same shall be submitted to this ministry & it's RO on six-monthly basis.	<b>Complied with.</b> The Illumination Standards inside mine is as per the DGMS Standards and monitored weekly.
(II)	Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc. shall be provided with personal protective equipment (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness program for users to be conducted. Progress in usage of such accessories to be monitored.	<b>Complied with.</b> Workers engaged in blasting and drilling operations, operation of HEMM, etc., has been provided with Ear Plugs/Muffs. Regular training programmes are conducted to aware the workers for its usage.
(III)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.	<b>Complied with.</b> Controlled blasting techniques to mitigate ground vibrations and fly rocks as per the guidelines prescribed by the DGMS are being practiced.
(IV)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workman at vulnerable points in the mine premises and report in this regard shall be submitted to the Ministry/RO on six- monthly basis.	<b>Agreed.</b>
(e)	<b>Occupational health &amp; safety</b>	
(i)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational and hearing impairment, if any.	<b>Agreed.</b> Initial and periodical medical examination of the workers engaged in the Mines are being carried out as per Mines Rules 1955.
(ii)	Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	<b>Complied with.</b> Personnel (including outsourcing employees) are being provided with protective respiratory device and adequate training & information on safety and health aspects regularly.

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(iii)	Sklll training as per safety norms specified by DGMS shall be provided to all workman including the outsourcing employees to ensure high safety standards in mines.	<b>Complied with.</b>
<b>(f)</b>	<b>Ecosystem and biodiversity conservation</b>	
(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the state forest and wildlife department.	<b>Complied with.</b> Wildlife Conservation & Management Plan has been approved by State Forest Department. We have also deposited requisite fund of Rs. 4.43 Crores for implementation of Wild Life Conservation and Management Plan to State CAMPA account. Its details are given at <b>Annexure – IV.</b>
<b>(g)</b>	<b>Public hearing , R&amp;R and CSR</b>	
(i)	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company /state Government /Central Government, as applicable.	<b>Agreed.</b> BALCO has undertaken various tasks/measures for addressing the issues raised during Public Hearing.
(ii)	The project proponent shall ensure the expenditure towards socio-economic development in and around the mine, in every financial year in pursuance of the corporate social responsibility policy as per the provisions under section 135 of the companies Act, 2013.	<b>Complied with.</b>
(iii)	The project proponent shall follow the mitigation measures provided in this ministry's OM No.Z-11013/5712014-IA.I1 (M) dated 29th October,2014 titled 'Impact of mining activities on habitations-issues related to the mining project wherein habitations and villagers are the part of mine lease areas or habitations and villagers are surrounded by the mine lease area '.	<b>Complied with.</b> The entire lease area of Chotia II Mine falls under Forest Land for which FC has already been granted by MoEF&CC
(iv)	The project proponent shall consultation with the state government to provide alternative arrangements. If grazing lands is involved in core zone, in consultation with the state government to provide alternate areas for livestock grazing, if any. In this context the project proponent shall implement the direction of Hon'ble Supreme Court with regard to acquiring grazing land.	<b>Complied with.</b> The entire lease area of Chotia II Mine falls under Forest Land for which FC has already been granted by MoEF&CC

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(h)	Corporate environment responsibility	
(i)	The Company shall have a well laid down environment policy duly approved by Board of Directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. Also, the company shall have a defined system of reporting of non-compliances/violations of environmental norms to the Board of Directors and/or shareholders/stakeholders.	<b>Complied with.</b> The well laid down environment policy duly approved by Board of Directors is in place. The system of reporting of non-compliances/violations of environmental norms to the Board of Directors and/or shareholders/stakeholders is in place.
(ii)	The project proponent shall comply with the provisions contained in this Ministry's OM dated 1st May, 2018, as applicable, regarding Corporate Environment Responsibility.	<b>Complied with.</b>
(iii)	A separate environmental management cell both at the project and company headquarter level, with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Board level executive/Head of the Organization.	<b>Complied with.</b> Environmental Management Cell has been constituted and is given at <b>Annexure-V</b> .
(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report	Agreed.
(v)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Agreed
(vi)	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.	Complied with.
(vii)	Effective arrangement shall be made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.	Complied with.

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(i)	<b>Statutory Obligations</b>	
(i)	The environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law from time to time, and as applicable to the project.	<b>Agreed.</b>
(ii)	This environmental clearance shall be subject to obtaining wildlife clearance, if applicable, from the Standing Committee of National Board for Wildlife.	<b>Agreed.</b>
(iii)	The project proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and the Water Act, 1974 from the concerned State Pollution Control Board.	<b>Complied</b> The Consent to Establish/Operate under the Air Act, 1981 and the Water Act, 1974 from Chhattisgarh Environment Conservation Board has been obtained.
(iv)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority (CGWA).	<b>Agreed.</b> NOC from Central Ground Water Authority (CGWA) has been approved for Ground Water Abstraction.
(j)	<b>Monitoring of project</b>	
(i)	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO <sub>2</sub> and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and /or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.	<b>Complied with.</b> Four Ambient Air Quality Monitoring Stations (AAQMS) have been established. Monitoring of each station is being done regularly.
(ii)	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr, and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.	<b>Complied with.</b> Report of AAQM data are being sent regularly to all concerned
(iii)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time by the Central Pollution Control Board.	<b>Complied with.</b>

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(iv)	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by the Ministry shall also be referred in this regard for its compliance.	<b>Complied with</b> Monitoring data has been uploaded on company's website. The link is below. <a href="http://balcoindia.com/sustainability/pdf/Environment_compliance_mines_chotia_II_May_2018.pdf">http://balcoindia.com/sustainability/pdf/Environment_compliance_mines_chotia_II_May_2018.pdf</a>
(v)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area through a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre monsoon, monsoon, post monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MoEF & CC/Regional Office.	Regular monitoring of ground water level and Quality is being done at existing wells and Piezometers installed in and around the Mine Lease area. The data thus collected is being sent regularly to Ministry of Environment & Forests, Central Ground Water Authority and Regional Director, Central Ground Water Board.
(vi)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	Agreed.
(vii)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and climate change/Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years.	Agreed.
(viii)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/Monitoring reports.	Agreed.
(K)	<b>Miscellaneous</b>	
(i)	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and of renewable energy.	Agreed.
(ii)	The project authorities shall inform to the Regional Office regarding commencement of mining operations.	<b>Complied with.</b> The Intimation for commencement of Mining operations has been provided to Regional Office vide Letter no. Balco/Cho/2018/RO/2018/17 dated 11.10.2018

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(iii)	A copy of the Environmental Clearance shall be marked to concerned Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's office/Tehsildar office for information in public domain within 30 days.	<b>Complied with</b> A copy of Environmental Clearance has been submitted to concerned panchayat, concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's office/Tehsildar office. It is enclosed as <b>Annexure - VI</b>
(iv)	The EC shall be uploaded on the company's website. The compliances status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain.	<b>Complied with</b> The copy of Environmental Clearance has been uploaded on company's website. The link for the relevant page is below. <b><a href="http://balcoindia.com/sustainability/pdf/Environmental_Clearance_Chotia.pdf">http://balcoindia.com/sustainability/pdf/Environmental_Clearance_Chotia.pdf</a></b>
(v)	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry.	<b>Complied with</b> The grant of EC has been informed via advertisement in two local newspapers. It is enclosed as Annexure – VII
(vi)	The environmental statement for each financial year ending 31 March in Form - V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail. Concerns raised during hearing.	<b>Agreed.</b> The Environment Statement has been submitted vide letter No. CHOTIA/ENVT/B-01/2018/315 dated 28 <sup>th</sup> September 2018
(vii)	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the subject matter.	Agreed.
5	The Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.	Agreed.

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6	The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Complied with.
7	The Coal Company/Project proponent shall be liable to pay the compensation against the illegal mining, if any , and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August , 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of ' Common cause vs Union of India & others.'	Agreed.
8	The Concerned State Government shall ensure that the mining operations shall not commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of the Hon'ble Supreme Court.	Agreed.
9	This environment clearance shall not be operational till such time the project proponent complies with the above said judgement of Hon'ble Supreme Court, as applicable, and other statutory requirements.	Agreed.
10	This EC supersedes the earlier environmental clearance granted vide letter No. J-1105/96/2004-IA.II (M) dated 10th November, 2005.	Agreed.

*Palani*

Ref. No. Balco/Cho/EC/Aug/2018/001

Date 29.08.2018

To,

**Shri S. K. Srivastava**  
Director, (IA-Coal Mining)  
Ministry of Environment, Forests and Climate Change,  
IPB, Jor Bagh, New Delhi – 110 003  
E-mail: sk.smree66@nic.in

Sub:

- (i) Chotia Coal Mine of capacity 1.0 MTPA Opencast and Underground within ML area 1179.826 Ha located in Village(s) Chotia, Bania, Podikhurd, Lalpur, Rode and Salaigot, Tehsil Podluprodha, District Korba, Chhattisgarh – Regarding Single Environment Clearance (EC) against separate ECs of Chotia-I and Chotia-II as per Condition no.4 (ii) of Environment Clearance issued vide letter No. J-11015/96/2004-IA.II(M) dated 18<sup>th</sup> July, 2018
- (ii) Correction in Condition no. 4 (i) of Environment Clearance issued vide letter No. J-11015/96/2004-IA.II(M) dated 18<sup>th</sup> July, 2018

Ref:

- (i) Environmental Clearance of Chotia II Captive Coal Mine issued Vide Letter No. J-11015/96/2004-IA-II.(M) dated 18<sup>th</sup> July, 2018
- (ii) Environmental Clearance of Chotia I Captive Coal Mine issued Vide Letter No. J-11015/96/2004-IA-II.(M) dated 4<sup>th</sup> June, 2015

Sir,

With reference to above mentioned subject and cited references, we would like to inform you that

- Chotia Coal Mine having two sub blocks Chotia I & Chotia II, was previously operated by M/s Prakash Industries Limited (previous allottee). Both Chotia I and Chotia II sub blocks have combined Mining Lease and Mine Plan for combined production capacity of 1.0 MTPA, approved by Ministry of Coal. However, separate EC's were issued for Chotia-I and Chotia-II by MoEF.
- Environmental Clearance to Chotia-I captive coal mine is for production capacity of 0.75 MTPA by Opencast and Underground method.
- Environmental Clearance to Chotia-II captive coal mine was for production capacity of 0.25 MTPA by Underground method.
- Subsequent to Judgment of Hon'ble Supreme Court of India dated 25<sup>th</sup> August 2014, Chotia Coal Mine was de-allocated. Later, through electronic auction process conducted by Ministry of Coal, Chotia Coal Mine was vested with BALCO vide vesting order no. 104/11/2015/NA dated 23<sup>rd</sup> March 2015.
- As per vesting order, the above Environmental clearances of Chotia I and II Captive Coal Mine issued to previous allottee were transferred in the name of M/s. BALCO vide Letter No:J-11015/96/2004-IA.II (M) dated 4<sup>th</sup> June, 2015 and No:J-11015/96/2004-IA.II (M) dated 17<sup>th</sup> June, 2015 respectively.
- To meet the contractual obligation of Coal Mine Development and Production Agreement (CMDPA) signed between Ministry of Coal and BALCO, to produce

- 1 MTPA, the Mine Plan was revised. Accordingly, the EC revision application of Chotia II for production capacity of 1.0 MTPA was submitted to MoEF&CC.
- Public Hearing for Chotia II Coal Mine was conducted by Chhattisgarh Environment Conservation Board on 06.01.2018 and subsequently Environment Clearance was granted on 18<sup>th</sup> July, 2018.
- As per Condition no. 4 (ii) of Environment Clearance Issued for Chotia-II Coal Mine on 18<sup>th</sup> July, 2018 we were directed to obtain single EC against combined mining lease and mining plan to continue the project after one year of issuance of the EC.
- This proposal is for combining of already issued ECs of Chotia I and Chotia II against Combined mining lease of 1179.826 ha and Mine Plan, as recommended by EAC in its 28<sup>th</sup> Meeting held on 18<sup>th</sup> April 2018 and Condition no. 4 (ii) of Environment Clearance Issued by MoEF&CC for Chotia-II Coal Mine on 18<sup>th</sup> July, 2018.

Further, there is a correction in point no. 4 (i) of Environment Clearance of Chotia-II Coal Mine issued by MoEF&CC vide letter No. J-11015/96/2004-IA.II(M) dated 18<sup>th</sup> July, 2018. It may be corrected as under.

*"The capacity of the Project shall be 1 MTPA by Opencast and Underground method of mining"*

In this regard, we are herewith submitting the Form-I for combining of already issued ECs of Chotia I and Chotia II against Combined mining lease of 1179.826 ha and Mine Plan.

We request you to consider our proposal in the next EAC meeting.

Thanking you

Yours Sincerely

  
Afroz Ali  
Associate Vice President



FINANCIAL ALLOCATION

S.N.	ITEM	ESTIMATED EXPENDITURE (IN LACS)
1	CONSERVATION OF SOIL AND WATER	
1.1	Watershed Improvement	39.975
1.2	Improvement of existing water sources	50.000
1.3	Development of new water sources	66.000
2	IMPROVEMENT OF FOOD	
2.1	Pasture Development	19.960
2.2	Control of grazing	10.000
2.3	Weed control	6.000
2.4	Burning regime, seeding and grass cutting	10.000
2.5	Development of brows, fruit, seeds & mast.	19.960
3	IMPROVEMENT OF COVER	
3.1	Escape cover	25.873
3.2	Ambush cover	10.153
3.3	Reproductive cover	19.978
3.4	Special Refuges	4.000
3.5	Shade and resting places	39.120
4	Creation of Conservation Awareness	40.000
5	Mitigating Human - Wild Life Conflict	25.000
6	Preparation of Biodiversity Register	17.000
7	Provision of Salt Licks	5.000
8	Fire Protection	15.000
	<b>TOTAL</b>	<b>443.017</b>

Total estimated budget of Rs. 4.43 Crore for implementation of this Plan is already been deposited into CAMPA account.

9.1.1 Year wise Expenditure Allocation for various Activities is given in Table-9.2.



समय अनुसार निवेदन  
 जल संसाधन विभाग, कच्छ

Head Office: Ring Road No. 2, Gogaon-499224 RAIPUR (C.G.)  
 Phone: 2325555, 2324448, Fax: 0771-2327596

**APPLICATION FOR FUNDS TRANSFER UNDER RTGS**

The Branch Manager  
**AXIS BANK LTD.**  
 G.E. Road, Takbaran, RAIPUR (C.G.)

Date: 10/05/11

I/We hereby request a sum of Rs. 4430700/- /Rupees Four Crores Sevy Three Lacs only as per details given below and debit the amount with your charges to my/our account with you. We agree to the terms and conditions given/mentioned overleaf. RTGS No. Seven Hundred only.

Details of Applicant:	Details of Beneficiary:
1. Prakash Industries Limited	1. City: <u>Chhatbisgarh, Orissa</u>
2. Address: Wire Rod Mill Division Ring Road No. 2, Gogaon, Raipur (C.G.)	2. Bank: <u>Axis Bank of India</u>
3. Account: Current Account	3. Branch: <u>Gogaon, Raipur</u>
4. Account No.: <u>725010200001212</u>	4. IFSC code: <u>AXIS000</u>
5. Telephone No.: <u>0771-2327599, 2325555</u>	5. Account No.: <u>244500000543</u>
6. Fax No.: <u>0771-2327598</u>	6. Account No.: <u>244500000543</u>
7. Branch No.: <u>Gogaon, Orissa</u>	7. City: <u>Raipur, Orissa</u>
8. Date: <u>10/05/11</u>	8. Tel/Fax No.:

*[Signature]*  
 (Authorised Signatory)

*[Signature]*  
 (Authorised Signatory)

**FOR BANK USE ONLY**

Field Transfer	Message Transmission
1. Applicant's Signatures valid: <u>Y/N</u>	Transaction authorized & funds remitted through RTGS as per details of Beneficiary given above.
2. Amount of Remittance: Rs. <u>4430700/-</u>	1. RTGS Sr. No. <u>000004392011</u>
3. Bank Charges: Rs. <u>4430700/-</u>	2. MF No. <u>000004392011</u>
4. Total Amount: Rs. <u>4430700/-</u>	Sign: <u>[Signature]</u> Date: <u>10/05/11</u>
5. Amount debited to A/c No. <u>725010200001212</u>	Sign: <u>[Signature]</u> Date: <u>10/05/11</u>
6. Enclave Tran ID: <u>000004392011</u>	Time: <u>10:00 AM</u> Time: <u>10:00 AM</u>
Signature of Maker: <u>[Signature]</u>	Maker: <u>[Signature]</u> Checker: <u>[Signature]</u>
Signature of Checker: <u>[Signature]</u>	



Annexure - 3

Authorization Letter

No. BALCO/HSE/2018

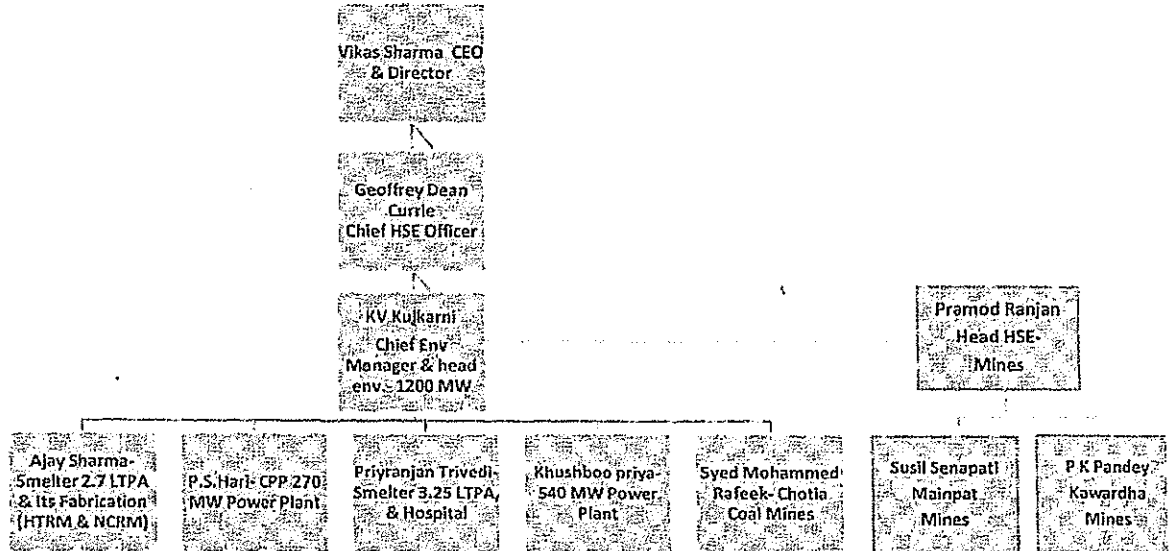
DI.30/03/2018

Subject: - Constitution of Environment Management Cell.

An Environment Management Cell is hereby constituted to fulfill all the legal compliances applicable to BALCO across all units (Refer Annex 1 for List of Units), under the following legislations: -

- 1) The Air (Prevention and Control of Pollution) Act, 1981
- 2) The Water (Prevention and Control of Pollution) Act, 1974
- 3) The Environment Protection Act, 1986

Below is the organogram of our Environment Management Cell:



For Bharat Aluminum Company Limited

  
Vikas Sharma  
CEO & Director

List of Units:

BHARAT ALUMINIUM COMPANY LIMITED

1. Smelter 2.7 LTPA & its Fabrication including HTRM & NCRM
2. Smelter 3.25 LTPA
3. 1200 MW Power Plant
4. 540 MW Power Plant
5. 270 MW Power Plant
6. Mainpat Bauxite Mines
7. Bodali Daldali Bauxite Mines (Kawardha)
8. Chotia Coal Mines
9. Balco Hospital
10. Occupational Health Centers at Metal & Power area
11. Occupational Health Centers at Mainpat, Bodai Daldali and Chotia Mines

Annexure - 4



BHARAT ALUMINIUM COMPANY LIMITED  
P.O. - BALCO Nagar, Korba, CG  
India - 495684

Balco/Coal Mines/2018/July/01

Date: Friday, 20 July, 2018

To,

1. Member Secretary,  
CECB, Raipur (C.G.)
2. Collector,  
Korba,  
District- Korba (C.G.)
3. Regional Office,  
CECB, Korba  
District Korba (C.G.)
4. General Manager  
District Industry and Business center,  
Korba (C.G.)
5. Tehsildar  
Tehsil Office, Podiuprodha  
District Korba, (C.G.)
- ✓ 6. Sarpanch  
Office of Sarpanch,  
Ghuchapur Panchayat,  
Podiuprodha, District Korba (C.G.)

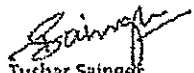
Subject: Chotia II Captive Coal Mining Project of 1 MTPA of M/s Bharat Aluminium Company Limited (BALCO) in mine lease area of 316.826 Ha located in Salaigot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh) - Environmental Clearance-reg.

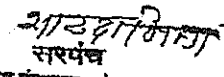
Reference: Letter No. J-11015/96/2004-IA.II (M) from MOEF & CC, New Delhi Dated 18 July 2018.

Sir/Mam,

With reference to the above mentioned subject, this is to inform your good office that the Ministry of Environment, Forests & Climate Change (MOEF&CC), New Delhi, Government of India has accorded Environmental Clearance to M/s Bharat Aluminium Company Limited for proposed project Chotia II Captive Coal Mining Project for 1.0 MTPA in mine lease area of 316.826 ha located in Salaigot village, Tehsil Podiuprodha, District Korba Chhattisgarh. The copy of said letter is also enclosed for your kind reference.

Thanking You  
Yours Sincerely

  
Tushar Sainger  
Associate Manager  
For Bharat Aluminium Company Limited

  
सरपंच  
ग्राम पंचायत-घुंघापुर  
वि.ख.-पोंडी उपरोडा  
जिला-कोरवा (छ.ग.) 20/07/18

Enclosed: - As mentioned above.

Annexure - 4



BHARAT ALUMINIUM COMPANY LIMITED  
P.O. - BALCO Nagar, Korba, CG  
India - 495688

Balco/Coal Mines/2018/July/01

Date: Friday, 20 July, 2018

To

1. Member Secretary,  
C.I.B, Raipur (C.G.)
2. Collector,  
Korba,  
District Korba (C.G.)
3. Regional Office,  
CECD, Korba  
District Korba (C.G.)
4. General Manager  
District Industry and Business center,  
Korba (C.G.)
5. Tehsildar  
Tehsil Office, Podiuprodha  
District Korba, (C.G.)
6. Sarpanch  
Office of Sarpanch,  
Ghuchapur Panchayat,  
Podiuprodha, District Korba (C.G.)

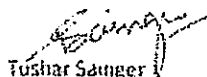
Subject: Chotia II Captive Coal Mining Project of 1 MTPA of M/s Bharat Aluminium Company Limited (BALCO) in mine lease area of 316.826 Ha located in Salagot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh) - Environmental Clearance-reg.

Reference: Letter No. J-11015/96/2004-IA II (M) from MOEF & CC, New Delhi Dated 18 July 2018

Sir/Mam,

With reference to the above mentioned subject, this is to inform your good office that the Ministry of Environment, Forests & Climate Change (MOEF&CC), New Delhi, Government of India has accorded Environmental Clearance to M/s Bharat Aluminium Company Limited for proposed project Chotia -II Captive Coal Mining Project for 1.0 MTPA in mine lease area of 316.826 ha located in Salagot village, Tehsil Podiuprodha, District Korba Chhattisgarh. The copy of said letter is also enclosed for your kind reference

Thanking You  
Yours Sincerely

  
Tushar Sanger  
Associate Manager  
For Bharat Aluminium Company Limited



Enclosed: - As mentioned above.

Annexure - 4



ok



BHARAT ALUMINIUM COMPANY LIMITED  
P.O. - BALCO Nagar, Korba, CG  
India - 495604

Balco/Coal Mincs/2018/July/01

Date: Friday, 20 July, 2018

To,

1. Member Secretary,  
CECB, Raipur (C.G.)
2. Collector,  
Korba,  
District- Korba (C.G.)
- ✓ 3. Regional Office,  
CECB, Korba  
District Korba (C.G.)
- ✓ 4. General Manager  
District Industry and Business center,  
Korba (C.G.)
5. Tehsildar  
Tehsil Office, Podiuprodha  
District Korba, (C.G.)
6. Sarpanch  
Office of Sarpanch,  
Ghuchapur Panchayat,  
Podiuprodha, District Korba (C.G.)

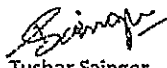
Subject: Chotia II Captive Coal Mining Project of 1 MTPA of M/s Bharat Aluminium Company Limited (BALCO) in mine lease area of 316.826 Ha located in Salaigot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh) - Environmental Clearance-reg.

Reference: Letter No J-11015/96/2004-IA II (M) from MOEF & CC, New Delhi Dated 18 July 2018.

Sir/Mam,

With reference to the above mentioned subject, this is to inform your good office that the Ministry of Environment, Forests & Climate Change (MOEF&CC), New Delhi, Government of India has accorded Environmental Clearance to M/s Bharat Aluminium Company Limited for proposed project Chotia -II Captive Coal Mining Project for 1.0 MTPA in mine lease area of 316.826 ha located in Salaigot village, Tehsil Podiuprodha, District Korba Chhattisgarh. The copy of said letter is also enclosed for your kind reference.

Thanking You  
Yours Sincerely

  
Tushar Sainger  
Associate Manager  
For Bharat Aluminium Company Limited



Enclosed: - As mentioned above.



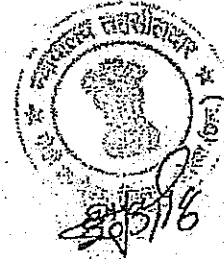
Annexure - 4

Balco/Coal Mines/2018/July/01

Date: Friday, 20 July, 2018

To,

1. Member Secretary,  
CECB, Raipur (C.G.)
2. Collector,  
Korba,  
District Korba (C.G.)
3. Regional Office,  
CECB, Korba  
District Korba (C.G.)
4. General Manager  
District Industry and Business center,  
Korba (C.G.)
5. Tehsildar  
Tehsil Office, Podiuprodha  
District Korba, (C.G.)
6. Sarpanch  
Office of Sarpanch,  
Ghuchapur Panchayat,  
Podiuprodha, District Korba (C.G.)



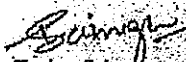
Subject: Chotia -II Captive Coal Mining Project of 1 MTPA of M/s Bharat Aluminium Company Limited (BALCO) in mine lease area of 316.826 Ha located in Salaigot Village, Tehsil Podiuprodha, District Korba (Chhattisgarh) - Environmental Clearance-reg.

Reference: Letter No. J-11015/96/2004-IA-II (M) from MOEF & CC, New Delhi Dated 18 July 2018.

Sir/Mam,

With reference to the above mentioned subject, this is to inform your good office that the Ministry of Environment, Forests & Climate Change (MOEF&CC), New Delhi, Government of India has accorded Environmental Clearance to M/s Bharat Aluminium Company Limited for proposed project Chotia -II Captive Coal Mining Project for 1.0 MTPA in mine lease area of 316.826 ha located in Salaigot village, Tehsil Podiuprodha, District Korba Chhattisgarh. The copy of said letter is also enclosed for your kind reference.

Thanking You  
Yours Sincerely

  
Tushtar Sainger  
Associate Manager  
For Bharat Aluminium Company Limited

Enclosed:- As mentioned above.



