



Bharat Coking Coal Limited



भारत कोकिंग कोल लिमिटेड
(कोल इण्डिया लिमिटेड की एक अनुषंगी कंपनी)

Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)

(एक मिनराल्स कंपनी / A Miniratna Company)

(भारत सरकार का उपक्रम / A Government of India Undertaking)

Office of the General Manager, Bastacolla Area, Dhanbad-828111

Ref. No: BCCL/BA/PO/2024-25/769

Date: 13.09.2024

To
The Divisional Forest Officer
Forest Division, Dhanbad

Sub: Regarding Diversion of 16.49 ha forest land for Kuya Colliery Open Cast Project in favour of M/s BCCL in Dhanbad district of Jharkhand State (Online No. FP/JH/MIN/32906/2018)

Dear Sir,

Please find enclosed herewith the point wise reply of query raised for Diversion of 16.49 ha forest land for Kuya Colliery Open Cast Project in favour of M/s BCCL in Dhanbad district of Jharkhand State (Online No. FP/JH/MIN/32906/2018).

This is for your kind information and further needful, please.

Thanking You,

Enclosures: as above


Yours sincerely

Project Officer
कुईयों कोलियरी
Project Officer
कुईयों कोलियरी
Kuya Colliery

S.No.	Query Raised / Issue Raised	Reply																								
1.	As per the Mine plan, Kuya Colliery comprises an area of 340.50 Ha which includes 176 Ha of Kuya underground, 60 Ha of whole Golukdih colliery and 104.50 Ha land transferred from Ghanoodih Colliery. Therefore, the total forest land involved in the 340.50 Ha lease area needs to be examined by the State Govt. and a detailed report along with copies of approvals accorded earlier under the FCA, 1980 needs to be submitted.	Total forest land involved in Kuya Colliery is 117.51 Ha. Out of which 101.02 Ha has already been diverted for Open mining projects working by BCCL vide F. No.- 8-44/2009-FC dated 12.02.2012 (Annexure 1.Copy of FC approval enclosed). Balance 16.49 Ha forest land is proposed for diversion in this proposal.																								
2.	As per the mining plan, only 117.19 ha forest land exist within the mine lease area of 340.5 ha. However, the Ministry vide its letter No 8-44/2009-FC diverted 234.08 ha forest land for open cast mining project in favour of same user agency. Therefore, the State Govt. shall provide the justification in this regard along with the KML file of 234.08 ha forest land and the status of lease hold area.	<p>Present status of breakup of already diverted 234.08 Ha forest land is as under:</p> <table><tr><th>Sl.</th><th>Mine</th><th>Mining lease (Ha)</th><th>Already diverted Forest land (Ha)</th></tr><tr><td>1.</td><td>Bera Colliery</td><td>209.56</td><td>13.44</td></tr><tr><td>2.</td><td>Dobari Colliery</td><td>146.90</td><td>55.62</td></tr><tr><td>3.</td><td>Ghanoodih Colliery</td><td>73.00</td><td>64.00</td></tr><tr><td>4.</td><td>Kuya Colliery</td><td>340.50</td><td>101.02</td></tr><tr><td colspan="3">Total</td><td>234.08 Ha</td></tr></table> <p>Total forest land involved in Kuya Colliery is 117.51 Ha. Out of 117.51 Ha forest land falling in the leasehold of Kuya Colliery, forest clearance has already been obtained for 101.02 Ha (as part of 234.08 Ha forest land diverted for Open mining projects working by BCCL vide F. No.- 8-44/2009-FC dated 12.02.2012) & balance 16.49 Ha forest land is proposed for diversion in this proposal.</p> <p>KML of 234.08 Ha prepared & uploaded in PARIVESH portal.</p>	Sl.	Mine	Mining lease (Ha)	Already diverted Forest land (Ha)	1.	Bera Colliery	209.56	13.44	2.	Dobari Colliery	146.90	55.62	3.	Ghanoodih Colliery	73.00	64.00	4.	Kuya Colliery	340.50	101.02	Total			234.08 Ha
Sl.	Mine	Mining lease (Ha)	Already diverted Forest land (Ha)																							
1.	Bera Colliery	209.56	13.44																							
2.	Dobari Colliery	146.90	55.62																							
3.	Ghanoodih Colliery	73.00	64.00																							
4.	Kuya Colliery	340.50	101.02																							
Total			234.08 Ha																							
3.	Further, out of 117.19 ha forest area mentioned in the Mine plan, the user agency has sought diversion of 16.49 ha forest land. Thus, the status of balance 100.7 ha forest land is not available in the proposal. The same needs justification.	<p>Total forest land involved in Kuya Colliery is 117.51 Ha. Out of which 101.02 Ha has already been diverted for Open mining projects working by BCCL vide F. No.- 8-44/2009-FC dated 12.02.2012 (Annexure 1.Copy of FC approval enclosed).. Balance 16.49 Ha forest land is proposed for diversion in this proposal.</p> <p>Status of already diverted forest land 101.02 Ha (part of 234.08 Ha) is mentioned below:</p> <p>Out of 101.02 Ha diverted forest land, 99.65 Ha forest land is under mining operation (Quarry & OB), extraction in III bottom seam is undergoing, hence, complete extraction has not been done.</p> <p>KML of both 101.02 Ha (already diverted as part of 234.08 Ha) & 16.49 Ha (area proposed for diversion in this proposal) has been uploaded in PARIVESH portal.</p>																								


परियोजना पदाधिकारी
Project Officer
कर्मचारी भवन
Kuya Colliery

4.	The State shall ensure that the area proposed for diversion and its component wise detail is commensurate with the approved mining plan. A comparative analysis in this regard shall be submitted.	<div>Mining plan has been modified and the component wise details of the area proposed for diversion are as mentioned below:</div> <table><tr><th>Sl.</th><th>Component</th><th>Forest land</th></tr><tr><td>1.</td><td>Quarry</td><td>15.92</td></tr><tr><td>2.</td><td>Safety Zone</td><td>0.57</td></tr></table>	Sl.	Component	Forest land	1.	Quarry	15.92	2.	Safety Zone	0.57																												
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5.	Status of compliance of conditions stipulated in earlier Stage-II approval dated 12.04.2012 granted for diversion of 234.08 ha of forest land for coal mining to be submitted by the State Government along with KML files of diverted area(234.08 ha) as well as the CA areas proposed earlier.	<div>Compliance of conditions stipulated in Stage II FC of 234.08 Ha forest land dated 12.04.2012 submitted to DFO, Dhanbad (27th June 2023 & 10.02.2024) (Annexure 2. Copy of Stage II FC Compliance enclosed).</div> <div><div>➤ KML of 234.08 Ha uploaded on PARIVESH portal.</div><div>➤ KML of CA land (468.16 Ha) uploaded on PARIVESH portal.</div></div>																																					
6.	Status of reclamation measures undertaken by the user agency in their lease area in case of earlier approvals as per the Progressive Mine Closure Plans and gaps if any, shall be intimated by the State.	<div>Reclamation Details:</div> <div>Forest land is under mining operation and extraction has not been completed due to multi-seam working. Final Reclamation will be done after complete exhaustion of coal.</div> <div>However, afforestation measures are being taken in the leasehold area of Bera, Dobari, Kuya & Ghanoodih Colliery as detailed below:</div> <div><div><div>Afforestation over OB dumps/mined out degraded land:</div><div>Till 2023-24 (after Stage I FC), afforestation done over 26.77 Ha. (Out of 26.77 Ha, afforestation over 9.70 Ha has been done through State Forest Department, Dhanbad and afforestation over 17.07 Ha has been done departmentally).</div></div><div><div>Grassing:</div><div>Grass seeds are being broadcasted on Slopes of OB Dumps to minimize Soil Erosion. Details mentioned below:</div><table><tr><th>FY</th><th>Name of project</th><th>Area (in Ha)</th></tr><tr><td>2019-20</td><td>Bera</td><td>2</td></tr><tr><td>2020-21</td><td>Bera</td><td>5</td></tr><tr><td>2021-22</td><td>Dobari</td><td>5</td></tr><tr><td>2022-23</td><td>Kuya</td><td>5</td></tr><tr><td>2023-24</td><td>Bera</td><td>3</td></tr><tr><td>2024-25</td><td>Dobari</td><td>5</td></tr></table></div><div><div>Avenue Plantation:</div><div>In addition to block plantation, avenue plantation has also been done by BCCL through State Forest Department. The details is as tabulated below:</div><table><tr><th>Sl no</th><th>Gabion</th><th>Year</th><th>Location</th></tr><tr><td>1</td><td>500 (Bamboo Gabion)</td><td>2015-16</td><td>Patrakulhi-Barmassia to Belgaria road</td></tr><tr><td>2</td><td>500 (Iron Gabion)</td><td>2018-19</td><td>PMCH,DGMS office, Coal Board residence area, Housing Board colony</td></tr><tr><td>3</td><td>600 (Bamboo Gabion)</td><td>2018-19</td><td><div><div>• Bera Colliery office to Amtal High school</div><div>• Bera Colliery office to</div></div></td></tr></table></div></div>	FY	Name of project	Area (in Ha)	2019-20	Bera	2	2020-21	Bera	5	2021-22	Dobari	5	2022-23	Kuya	5	2023-24	Bera	3	2024-25	Dobari	5	Sl no	Gabion	Year	Location	1	500 (Bamboo Gabion)	2015-16	Patrakulhi-Barmassia to Belgaria road	2	500 (Iron Gabion)	2018-19	PMCH,DGMS office, Coal Board residence area, Housing Board colony	3	600 (Bamboo Gabion)	2018-19	<div><div>• Bera Colliery office to Amtal High school</div><div>• Bera Colliery office to</div></div>
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 Project Officer
 कुर्खी कोलियरी
 Colliery

					Patrakulhi																				
		4	1500 (Bamboo Gabion)	2020-21	<ul style="list-style-type: none">• Rajapur/ South Jharia office to BNR Railway siding (along roads)• BNR Railway siding(within siding premises)																				
		5	800 (Bamboo gabion)	2024-25 (Work Awarded)	<ul style="list-style-type: none">• Chandmari colliery to Govardhan Eco-park, Bera Colliery• Coal Depot of Kuya Colliery to Jharia Baliapur Road																				
7.	The KML files indicating the different components of the project have not been submitted. The same needs to be submitted/uploaded conspicuously depicting the various project component vis-à-vis total lease area.	Component wise KML of the project uploaded on PARIVESH portal.																							
8.	As per the DSS analysis, it has been revealed that area is broken within the proposed forest patch for the construction of road. The same needs clarification.	Necessary action has been taken by forest department																							
9.	The Mining lease (ML) boundary needs to be verified because the area of KML file of ML is found to be 374.606 ha against the 340.5 ha as per the details mentioned in online Part-1.	KML for 340.5 Ha uploaded on PARIVESH Portal.																							
10.	Satellite imagery shows that the plantation activity is visible in the proposed CA patch namely Tukipur compartment No. 562 and part of this patch is having encroachment of Agriculture land. Therefore, the proposed CA patch needs to be revised.	The proposed CA patch revised and the KML for same has been uploaded. The details of revised CA patch is mentioned below: <table><tr><th>Mouza</th><th>Thana</th><th>Plot No.</th><th>Area (in Ha)</th></tr><tr><td>Bandojor</td><td>Tundi/08</td><td>29, 02,355, 356,354</td><td>14</td></tr><tr><td>Sarra</td><td>Tundi/01</td><td>409</td><td>13</td></tr><tr><td>Bhurrahi</td><td>Tundi/09</td><td>227, 125,218, 229</td><td>11</td></tr><tr><td colspan="3">Total</td><td>38</td></tr></table>				Mouza	Thana	Plot No.	Area (in Ha)	Bandojor	Tundi/08	29, 02,355, 356,354	14	Sarra	Tundi/01	409	13	Bhurrahi	Tundi/09	227, 125,218, 229	11	Total			38
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Total			38																						
11.	Satellite imagery shows that the construction activities like pond etc. are visible in another CA patch namely Bhurahi Compartment No. 125, 131, 218, 219, 222, 227, 229. This needs clarification	The proposed CA patch revised and the KML for same has been uploaded. The details of revised CA land is mentioned below: <table><tr><th>Mouza</th><th>Thana</th><th>Plot No.</th><th>Area (in Ha)</th></tr><tr><td>Bandojor</td><td>Tundi/08</td><td>29, 02,355, 356,354</td><td>14</td></tr><tr><td>Sarra</td><td>Tundi/01</td><td>409</td><td>13</td></tr><tr><td>Bhurrahi</td><td>Tundi/09</td><td>227, 125,218, 229</td><td>11</td></tr><tr><td colspan="3">Total</td><td>38</td></tr></table>				Mouza	Thana	Plot No.	Area (in Ha)	Bandojor	Tundi/08	29, 02,355, 356,354	14	Sarra	Tundi/01	409	13	Bhurrahi	Tundi/09	227, 125,218, 229	11	Total			38
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Total			38																						
12.	The site suitability of CA land shall be ascertained as per the Ministry's guideline dated 13.07.2022.	Necessary action has been taken by forest department																							
13.	In the Mining plan, it has been reported that a section of Tisra Jore Nallah flowing in the proposed quarry area, has to be diverted for operation of the proposed project. Therefore, comments of the water resource department on the proposed measures and impact of the project on the hydrological regimes are	As per revised Mining Plan, Nalla diversion is not required.																							

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

	required to be submitted	
14.	The details of land-use at the end of mine life have not been given in the Mine plan and progressive mine closure plan. Therefore, the revised mining plan along with mine closure plan shall be submitted/ uploaded.	Revised Mining plan of Kuya Colliery uploaded on PARIVESH Portal (January 2023). (Annexure 3. Copy of approved Mining plan enclosed)
15.	Details of coal evacuation plan and how the requirements of water and electricity will be met by the user agency shall be submitted. The details of additional forest land required for the same shall also be submitted.	Coal Evacuation plan of Kuya Colliery is enclosed as Annexure 4 . Water extracted from Mines is only being used for meeting water requirement. Existing arrangement of electricity is sufficient to cater proposed mine-operation as detailed in Mining Plan. As per Mining Plan, no further forest land is required for coal evacuation.
16.	The State Govt. shall submit the status of Mine lease validity along with the relevant details and chronological history.	Status of Mine lease validity along with the relevant documents and chronological history uploaded in PARIVESH portal (Annexure 5. Copy of Mine lease validity with chronology enclosed).
17.	Given the density of 0.6 of the proposed forest area of 16.49 Ha, number of project affected trees reported as 2246 appears to have been estimated on lower side. The same needs to be reconfirmed by the state.	Necessary correction has been done
18.	The CF, Bokaro in Part-III reported that the proposed area is having 10 years old plantation and prominent species such Chakundi, Chhatni, Doka etc have been noticed. Therefore, the details of plantation, the scheme under which it was done along with undertaking from the user agency to bear the cost of plantation in the proposed area shall be submitted.	Undertaking uploaded on PARIVESH Portal. (Annexure 6)
19.	KML files and afforestation scheme of the degraded forest land proposed for afforestation in lieu of 1.5 times the area of safety zone has not been submitted. The same needs to be submitted along with the afforestation scheme and suitability certificate.	KML file of the degraded forest land proposed for afforestation in lieu of 1.5 times the area of safety zone along with KML files of double degraded land for CA i.e. approx. 38 Ha has been submitted & uploaded in PARIVESH portal. The afforestation scheme & suitability certificate will be uploaded by forest department in PARIVESH portal.
20.	The PCCF (WL) recommended the proposal subject to fulfillment of Site specific wildlife/ Biodiversity conservation plan at the project cost. However, the undertaking from the user agency to bear the cost has not been submitted.	Undertaking uploaded on PARIVESH Portal. (Annexure 7)


परियोजना पदाधिकाशी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

21.	Cost Benefit ratio is calculated as 1:434.64, which is extremely high. Therefore, the same needs to be revisited and required to be submitted in prescribed format keeping in view the revised rates of NPV dated 06.01.2022	Revised CBA uploaded on PARIVESH Portal (Annexure 8)
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Project Officer
Kuya Colliery
 परियोजना पर्याधिकारी
Project Officer
 कुईयों कोलियरी
Kuya Colliery

पत्र संख्या-3/वन भूमि-28/2009-2236

झारखण्ड सरकार,
वन एवं पर्यावरण विभाग

व०प०

प्रेषक,

मुकेश कुमार वर्मा,
सरकार के उप सचिव

सेवा में,

प्रधान मुख्य वन संरक्षक,
झारखण्ड, राँची।

विषय:-

धनबाद वन प्रमंडल के अंतर्गत बी०सी०सी०एल० के पक्ष में धानूडीह बेरा खुली खदान हेतु 234.08 हे० वन भूमि अपयोजन का प्रस्ताव।

राँची, दिनांक- 23/5/2012

महाशय,

निदेशानुसार उपर्युक्त विषयक भारत सरकार, पर्यावरण एवं वन मंत्रालय, नई दिल्ली के पत्रांक-8-44/2009 FC दिनांक-12.04.2012 जिसकी प्रति आपको भी दी गई है, की ओर आपका ध्यान आकृष्ट करते हुए कहना है कि विषयगत परियोजना को भारत सरकार ने 20 (बीस) शर्तों के साथ स्टेज-II की स्वीकृति प्रदान की है।

अतः अनुरोध है कि विषयगत परियोजना में लगाये गये शर्तों का अनुपालन प्रतिवेदन अविलंब विभाग को उपलब्ध कराने की कृपा की जाय।

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

विश्वासभाजन,

(मुकेश कुमार वर्मा)
सरकार के उप सचिव

Copy to DT

GM (Env)

CM (Env)

317

कार्यालय:- प्रधान मुख्य वन संरक्षक, झारखण्ड, राँची।

ज्ञापांक:- 19 एम० 1 (5) 3/2004

दिनांक

प्रतिलिपि:- प्रधान मुख्य वन संरक्षक-सह-कार्यकारी निदेशक, बजर भूमि विकास बोर्ड, झारखण्ड, राँची/क्षेत्रीय मुख्य वन संरक्षक, हजारीबाग/वन संरक्षक, बोकारो अधल, बोकारो/वन प्रमंडल पदाधिकारी, धनबाद वन प्रमंडल को इस कार्यालय का ज्ञापांक-1859 दिनांक-10.05.2012 के सदर्न सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। अनुरोध है कि विषयक प्रस्ताव पर दी गई स्टेज-II स्वीकृति में लगाई गई शर्तों का अनुपालन प्रतिवेदन उचित माध्यम से अग्रतर कार्रवाई हेतु उपलब्ध कराया जाय।

प्रधान मुख्य वन संरक्षक,
झारखण्ड, राँची।

ज्ञापांक-

2320

दिनांक- 9/6/12

प्रतिलिपि:- निदेशक, तकनीकी (पी० एण्ड० पी०) बी० सी० सी० एल०, कोयला भवन, कोयला नगर, धनबाद को मांगू, जंगल, सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

for Mr. Modi
25/7

for Mr. Modi
25/7

प्रधान मुख्य वन संरक्षक
झारखण्ड, राँची।
09/06

1. No. 8-44/2009-FC
Government of India
Ministry of Environment & Forests
(FC Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi-110510

Dated: April, 2012

To

✓ The Principal Secretary (Forests),
Government of Jharkhand,
Ranchi.

Sub: Diversion of 234.08 ha of forest land for coal mining of open mining project in village Ghanodih and Bera in favour of M/s Bharat Coking Coal Limited (BCCL) in Dhanbad district of Jharkhand.

Sir,

I am directed to refer to the State Government's letter no. 3 / VanBhumi - 28 /2009-1704 VP dated 13.06.2009 on the subject mentioned above seeking prior approval of the Central Government under Section-2 of the Forests (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under section-3 of the said Act, in-principle approval was granted vide this Ministry's letter of even number dated 9.08.2010 subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested the Central Government to grant final approval.

In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government vide letter no. 3/Vanbhumi-28/2009-1410 dated 13.04.2011 and letter dated 3.02.2012, approval of the Central Government is hereby granted under section-2 of the Forest (Conservation) Act, 1980 for diversion of 234.08 ha of forest land for coal mining of open mining project in village Ghanodih and Bera in favour of M/s Bharat Coking Coal Limited (BCCL) in Dhanbad district of Jharkhand subject to fulfillment of the following conditions:

पर मुख्य सचिव कोषांग

वन एवं पर्यावरण मंत्रालय

Legal status of forest land shall remain unchanged.

23.9.2012
03 MAY 2012

a. Compensatory afforestation shall be raised and maintained by the State Forest Department at the project cost.

झारखण्ड, राँची

b. Fencing, protection and regeneration of the safety zone area shall be done at the project cost.

c. The boundary of safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar

3 The following activities shall be undertaken by the User Agency under supervision of

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

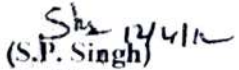
the State Forest Department at the project cost.

- (i) Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented.
 - (ii) Planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion.
 - (iii) Construction of check dams, retention toe walls to arrest sliding down of the excavated material along the contour.
 - (iv) The top soil management plan should be strictly adhered to.
4. Wherever possible and technically feasible, the User Agency shall undertake by involving local community, the afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.
 5. The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.
 6. The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under the Environment (Protection) Act, 1986 and any other Acts/Regulation/Rules.
 7. The period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development & Regulating) Act, 1957, or Rules framed there under, subject to a maximum period of 30 years;
 8. Any tree felling shall be done only when it is unavoidable under strict supervision of the State Forest Department.
 9. No damage to the flora and fauna of the area shall be caused.
 10. No labour camps shall be set up inside the forest area.
 11. The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage / felling of trees.
 12. Demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.
 13. The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.

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परियोजना पदाधिकारी
Project Officer
कुईराँ कोलियरी
K. R. Colliery

13. The User Agency will ensure the dumping of O/S as per the approved Nodal Reclamation plan.
16. The user agency shall undertake mining in a phased manner after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or the Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.
17. The user agency will implement the R & R Plan as per the R&R Policy of State Govt. in consonance with National R&R Policy of the State Government.
18. The user agency shall undertake de-silting of the village tanks and other water bodies located within five km from the mine lease boundary so as to mitigate the impact of siltation of such tanks water bodies, whenever required.
19. Any other condition that the CCF (Central) Regional Office, Bhubaneswar may impose from time to time for protection and improvement of flora and fauna in the forest area, shall also be applicable.
20. The user agency shall submit the annual compliance report in respect of the above conditions to the State Government and to the Regional Office, Bhubaneswar regularly.

Yours faithfully,


(S.P. Singh)

Assistant Inspector General of Forests

Copy to:-

1. The Principal Chief Conservator of Forests Government of Jharkhand, Ranchi.
2. The Nodal Officer, Office of the PCCF, Government of Jharkhand, Ranchi.
3. The Chief Conservator of Forest (Central), Regional Office, Bhubaneswar.
4. User Agency.
5. Monitoring cell of the FC section
6. Guard file.

(S.P. Singh)
Assistant Inspector General of Forests


परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

Office of the General Manager, Bastacolla Area, Dhanbad-828111

Annexure - 2

Ref. No: BCCL/BA/PO/2024-25/767

Date: 13.09.2024

To
The Divisional Forest Officer
Forest Division, Dhanbad

Sub: ATR/Compliance Report i.r.o of diversion of 234.08 Ha of Forest Land for Coal Mining of Open cast Mining Project in Village Ghanoodih and Bera in Favour of M/S BCCL, Dhanbad.

Dear Sir,


Please find enclosed herewith, ATR/Compliance report by Bharat Coking Coal Limited for all conditions set by Ministry of Environment and Forest along with requisite enclosures.

This is for your kind information, please.

Thanking You,

Enclosures: as above

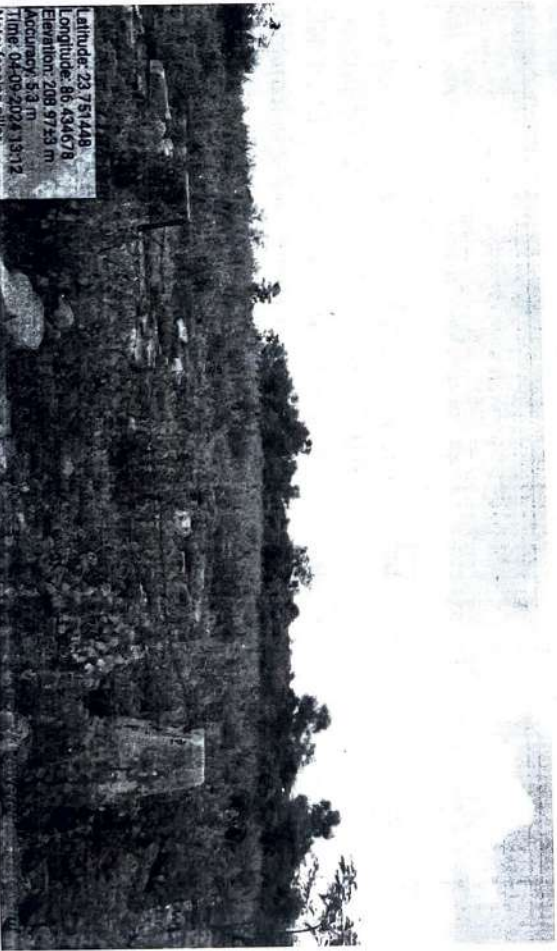
Yours sincerely


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery


Copy to:


- 1) MoEFCC, Integrated Regional Office, Forest Division, Bungalow No. A-2, Shyamali Colony, Doranda, Ranchi, Jharkhand 834002

Action taken/Compliance report by Bharat Coking Coal Limited (BCCL) for the conditions set by MoEF in respect of Stage II Forest clearance for diversion of 234.08 ha. of Forest Land for Opencast mining project in Ghanodih and Bera villages in favour of M/s. Bharat Coking Coal limited (BCCL) in Dhanbad district of Jharkhand.

Sl. No	Condition	Compliance / Action taken report
1	Legal status of forest land remains unchanged. a. Compensatory afforestation shall be raised and maintained by the State Forest Department at the project cost. b. Fencing, protection and regeneration of the safety zone area shall be done at the project cost.	Agreed. BCCL has deposited Rs. 2,66,50,578 towards compensatory afforestation (DD no. 441900 dated 17.09.2010, drawn in favor of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi). 63 Nos. of pillars in Safety zones were erected at the Project cost. Safety zone =0.98 Ha. Fencing done.
		 <p>Latitude: 23.751448 Longitude: 86.434678 Elevation: 208.9723 m Accuracy: 5.8 m Time: 04-09-2024 15:12 Note: Fencing pillar.</p>

परियोजना प्रदायिका
Project Officer
कुईयाँ कोलियरी
Kuya Colliery

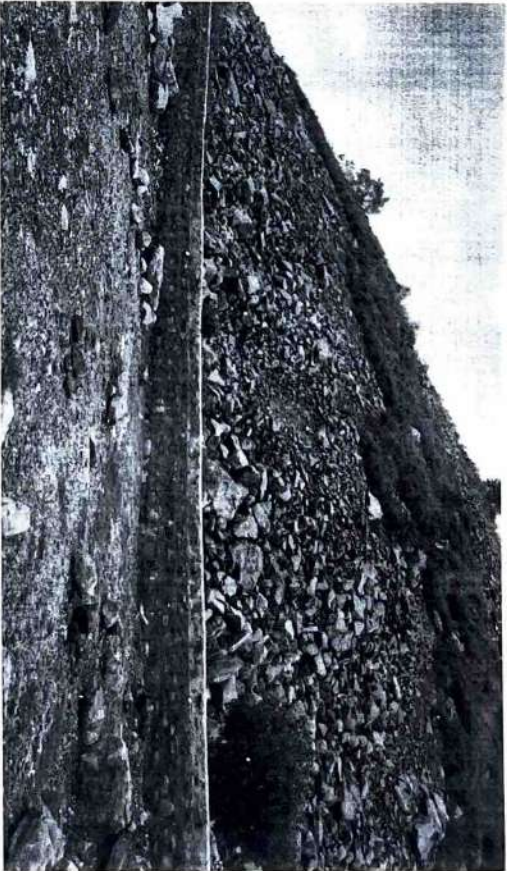
<p>2 The boundary of safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar.</p>	<p>The boundary of Safety Zone was demarcated on ground at the project cost, by erecting 63 Nos. of pillars over 1310.00 m. 204 Nos.[Dobari village(171) and Bera Village(33)] of Pillars were erected as demarcated pillar over Forest Land.</p> 



 परियोजना प्रदाता
 Project Officer
 कुईया कोलियरी
 Kuya Colliery



3	<p>The following activities shall be undertaken by the User Agency under supervision of the State Forest Department at the project cost:</p> <p>(i) Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented.</p>	<p>The study has been already conducted by Indian School of Mines and we are complying with the recommendations. Proper mitigative Measures are being taken for prevention of Soil Erosion, Choking of Streams etc. The details are as mentioned below:-</p> <ol style="list-style-type: none"> Afforestation over OB dumps/ mined out degraded land for arresting soil erosion: After receiving Stage-I approval, till the year 2023-24, a total of 26.77 Ha (Forest Department – 9.7 Ha, Departmental – 17.07 Ha) plantation has been done in Bera, Dobari, Kuya and Ghanoodih colliery. Grassing: Grass seeds are being broadcasted on Slopes of OB Dumps to minimize Soil Erosion. Details mentioned below: <table border="1"> <thead> <tr> <th>FY</th><th>Name of project</th><th>Area (in Ha)</th></tr> </thead> <tbody> <tr> <td>2019-20</td><td>Bera</td><td>2</td></tr> <tr> <td>2020-21</td><td>Bera</td><td>5</td></tr> <tr> <td>2021-22</td><td>Dobari</td><td>5</td></tr> <tr> <td>2022-23</td><td>Kuya</td><td>5</td></tr> <tr> <td>2023-24</td><td>Bera</td><td>3</td></tr> <tr> <td>2024-25</td><td>Dobari</td><td>5</td></tr> </tbody> </table>	FY	Name of project	Area (in Ha)	2019-20	Bera	2	2020-21	Bera	5	2021-22	Dobari	5	2022-23	Kuya	5	2023-24	Bera	3	2024-25	Dobari	5
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2024-25	Dobari	5																					

		<p>3. Construction of toe wall/ retention wall along OB dumps & jores: Retention wall of about 291.13 m length has been constructed along Chalkari Jore at cost of Rs. 19,74,504.</p> <p>4. Construction of sedimentation ponds:</p> <ul style="list-style-type: none">• Sedimentation pond (Two) at Bastacolla Colliery• Tisra Kuya pond (One) at Kuya Colliery• Pond (One) at Bera Colliery <p>5. Construction of check dams: Check dam constructed over Chalkari Jore at cost of Rs.17.5 Lakhs opposite of Govardhan Eco-park, Bera.</p>																								
(ii) Planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion.	<ul style="list-style-type: none">• Till 2023-24 (after Stage I FC), afforestation done over 26.77 Ha. (Out of 26.77 Ha, afforestation over 9.70 Ha has been done through State Forest Department, Dhanbad and afforestation over 17.07 Ha has been done departmentally).• In addition to block plantation, avenue plantation has also been done by BCCL through State Forest Department. The details is as tabulated below: <table><tr><th>Sl no</th><th>Gabion</th><th>Year</th><th>Location</th></tr><tr><td>1</td><td>500 (Bamboo Gabion)</td><td>2015-16</td><td>Patrakulhi-Barmassia to Belgaria road</td></tr><tr><td>2</td><td>500 (Iron Gabion)</td><td>2018-19</td><td>PMCH,DGMS office, Coal Board residence area, Housing Board colony</td></tr><tr><td>3</td><td>600 (Bamboo Gabion)</td><td>2018-19</td><td>• Bera Colliery office to Amtal High school • Bera Colliery office to Patrakulhi</td></tr><tr><td>4</td><td>1500 (Bamboo Gabion)</td><td>2020-21</td><td>• Rajapur/ South Jharia office to BNR Railway siding (along roads) • BNR Railway siding(within siding premises)</td></tr><tr><td>5</td><td>800 (Bamboo gabion)</td><td>2024-25 (Work Awarded)</td><td>• Chandmari colliery to Govardhan Eco-park, Bera Colliery • Coal Depot of Kuya Colliery to Jharia Baliapur Road</td></tr></table>	Sl no	Gabion	Year	Location	1	500 (Bamboo Gabion)	2015-16	Patrakulhi-Barmassia to Belgaria road	2	500 (Iron Gabion)	2018-19	PMCH,DGMS office, Coal Board residence area, Housing Board colony	3	600 (Bamboo Gabion)	2018-19	• Bera Colliery office to Amtal High school • Bera Colliery office to Patrakulhi	4	1500 (Bamboo Gabion)	2020-21	• Rajapur/ South Jharia office to BNR Railway siding (along roads) • BNR Railway siding(within siding premises)	5	800 (Bamboo gabion)	2024-25 (Work Awarded)	• Chandmari colliery to Govardhan Eco-park, Bera Colliery • Coal Depot of Kuya Colliery to Jharia Baliapur Road	
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5	800 (Bamboo gabion)	2024-25 (Work Awarded)	• Chandmari colliery to Govardhan Eco-park, Bera Colliery • Coal Depot of Kuya Colliery to Jharia Baliapur Road																							
(iii) Construction of check dams, retention/toe	The details of Construction of check dams, retention/ toe walls, embankment are																									

<p>walls to arrest sliding down of the excavated material along the contour.</p>	<p>as :-</p> <ul style="list-style-type: none"> • Construction of check dams: Check dam constructed over Chatkari Jore at cost of Rs. 17.5 Lakhs opposite of Govardhan Eco-park, Bera. • Construction of retention/toe walls: Retention wall of about 291.13 m length has been constructed along Chatkari Jore at cost of Rs. 19,74504. 
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 परियोजना पदाधिकारी
 Project Officer
 कुईयाँ कोलियरी
 Kuva Colliery




(iv) The top soil management plan should be strictly adhered to.

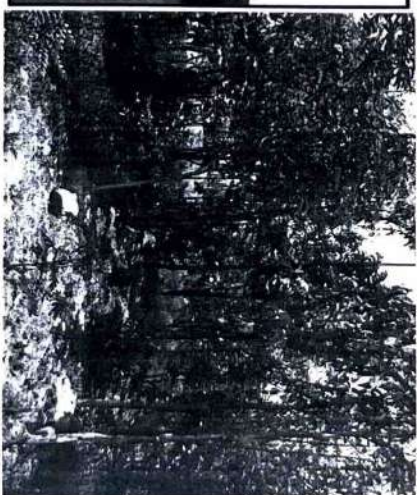
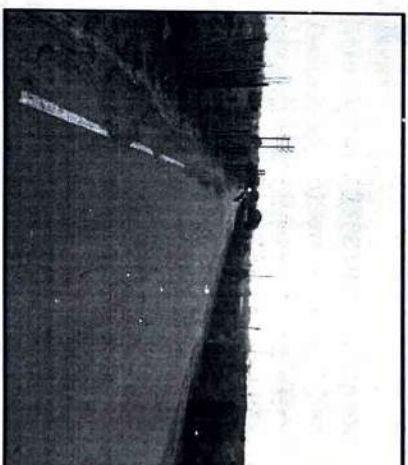
Top soil wherever available is being stacked and reused for eco-restoration purpose at Rajapur, Bera, Kuya, Dobari Eco-restoration site.

Year	Quantity (M ³)	Utilization/Location
2019-20	2000.00	Top Soil is being utilized in Biological Reclamation and Ecological Restoration Sites.
2020-21	2500.00	
2021-22	560.00	
2022-23	1500.00	
2023-24	Nil	

18

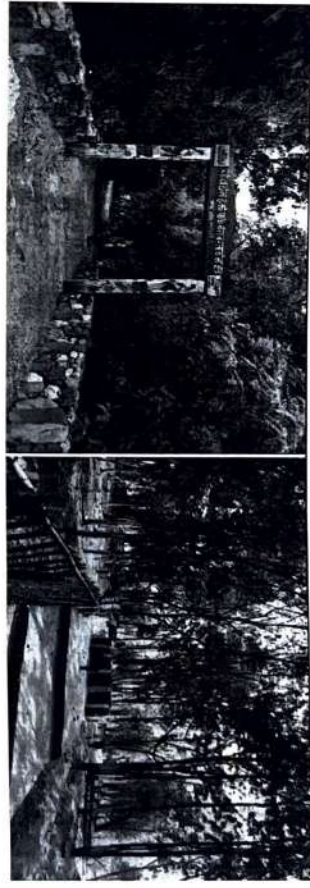
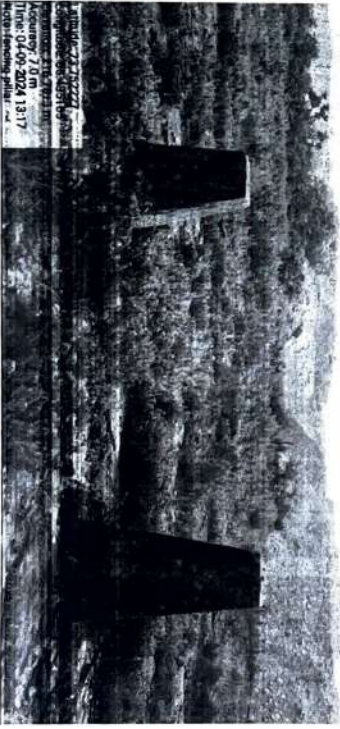
	
<p>4</p> <p>Whenever possible and technically feasible, the User Agency shall undertake by involving local community, the Afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.</p>	<p>Being Complied.</p> <p>Afforestation measures are being taken in the leasehold area of Bera, Dobari, Kuya & Ghanoodh Colliery as detailed below:</p> <ol style="list-style-type: none"> 1. Afforestation over OB dumps/mined out degraded land done is detailed below: <ul style="list-style-type: none"> • Till 2023-24 (after Stage I FC), afforestation done over 26.77 Ha. (Out of 26.77 Ha, afforestation over 9.70 Ha has been done through State Forest Department, Dhanbad and afforestation over 17.07 Ha has been done departmentally). • Afforestation measures in the blanks involving local community taken up during various occasions such as World Environment Day, Vriksharopan Abhiyan, Van Mahotsav, Swachhta Pakhwada, Vigilance awareness week, Ek Ped Maa ke Naam etc. • Afforestation works awarded to State Forest department involves the local 2. Communities to execute the plantation work at Project Cost. 2. In addition to block plantation, avenue plantation has also been done by BCCL through State Forest Department. The details is as tabulated below:

Sl no	Gabion	Year	Location
1	500 (Bamboo Gabion)	2015-16	Patrakulhi-Barmassia to Belgaria road
2	500 (Iron Gabion)	2018-19	PMCH,DGMS office, Coal Board residence area, Housing Board colony
3	600 (Bamboo Gabion)	2018-19	• Bera Colliery office to Amtal High school • Bera Colliery office to Patrakulhi
4	1500 (Bamboo Gabion)	2020-21	• Rajapur/ South Jharia office to BNR Railway siding (along roads) • BNR Railway siding(within siding premises)
5	800 (Bamboo gabion)	2024-25 (Work Awarded)	• Chandmari colliery to Govardhan Eco-park, Bera Colliery • Coal Depot of Kuva Colliery to Jharia Batiapur Road



5	The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.	BCCL has already deposited the amount of Rs. 14,65,34,080 towards NPV (DD No. 441899 dated 17.09.2010, in favour of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi.
6	The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under Environment (Protection) Act, 1986 and any other	EC obtained vide Ref No. J-11015/298/2010-IA-II(M) Dated 15.02.2013. Further, EC amended in 15.06.2018, 15.11.2020 & 28.03.2023.


Acts/Regulation/Rules.	
7 The period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to granted under the Mines and Minerals (Development & Regulating) Act, 1957, or Rules framed there under, subject to a maximum period of 30 years.	Diversion is Valid up to 11.04.2042.
8 Any tree felling shall be done only when it is unavoidable under strict supervision of State Forest Department.	<p>Tree felling is always done after receiving the consent from State Forest Department. As per the tree felling permission granted by HPC, GoJ, vide no TCF-03 dated 27.01.2023; 37680 no. of trees are to be planted in lieu of felling of 3768 no. of trees.</p> <p>The details of compliance of the tree felling permission granted by HPC are as follows:</p> <ul style="list-style-type: none"> • Bera (5 Ha): 12500 plants (Departmental) • Bastacolla Colliery (5 Ha): 12500 plants (Plantation by Forest Department is proposed in the financial year 2024-25) • 800 bamboo gabion plantation (Plantation by Forest Department is proposed in the financial year 2024-25) • Kuya Colliery (5 Ha): Plantation of 12500 plants is being proposed in the financial year 2025-26
9 No damage to the flora and fauna of the area shall be caused.	<p>Agreed. No damage to the flora and fauna of the area shall be caused by BCCL. In addition, BCCL is doing biological reclamation through eco-restoration method, in which land is being converted to a form to replicate natural forest which attract flora and fauna leading to restoration of bio-diversity of area which is being monitored by FRI, Dehradun. Various species of flora (Psidium guajava, Albezia lebbeck, Maduca indica, Aegle marmelos, Pongamia pinnata, Heterophragma adenophyllum, Dalbergia sisoo, Ziziphus jujube) & fauna have made the site as their habitat as reported by FRI, Dehradun.</p> <p>Two nos. of eco restoration park viz. Govardhan park (6.70 Ha) & Netaji Subhas Chandra Bose park (2.50 Ha) have been developed. Land is being converted to replicate natural forest which attract flora and fauna leading to restoration of bio-diversity.</p>

			
10	No labour camps shall be set up inside the forest area.	No labour camps have been set up inside the forest area.	
11	The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage/felling of trees.	BCCL is providing alternate fuel to the labourers working at the site to avoid damages/felling of trees as per the existing policy of Coal India Limited in this regard.	
12	Demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.	204 Nos.[Dobari village(171) and Bera Village(33)] of Pillars were erected as demarcated pillar over Forest Land.	
13	The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by	Agreed.	<p>परियोजना प्रतिकार</p> <p>Project Officer</p> <p>कुईरॉ कोलियरी</p> <p>Kuyra Colliery</p>

	the Chief Wildlife Warden of the State.		Agreed and is being Complied.																					
14	The forest land shall not be used for any purpose other than that specified in the proposal.																							
15	The User Agency will ensure the dumping of OB as per the approved phased reclamation plan.		Agreed and is being Complied. OB dumping is being done as per approved Mining plan.																					
16	The user agency shall undertake mining in a phased manner and after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.		Forest land is under mining operation and extraction has not been completed due to multi-seam working. The detailed description of concurrent reclamation plan is given in Mining Plan. Final Reclamation will be done after complete exhaustion of coal. However, afforestation measures are being taken in the leasehold area of Bera, Dobari, Kuya & Ghanoodh Colliery as detailed below: <ul style="list-style-type: none">• Afforestation over OB dumps/mined out degraded land: Till 2023-24 (after Stage I FC), afforestation done over 26.77 Ha. (Out of 26.77 Ha, afforestation over 9.70 Ha has been done through State Forest Department, Dhanbad and afforestation over 17.07 Ha has been done departmentally).• Grassing: Grass seeds are being broadcasted on Slopes of OB Dumps to minimize Soil Erosion. Details mentioned below:<table><tr><th>FY</th><th>Name of project</th><th>Area (in Ha)</th></tr><tr><td>2019-20</td><td>Bera</td><td>2</td></tr><tr><td>2020-21</td><td>Bera</td><td>5</td></tr><tr><td>2021-22</td><td>Dobari</td><td>5</td></tr><tr><td>2022-23</td><td>Kuya</td><td>5</td></tr><tr><td>2023-24</td><td>Bera</td><td>3</td></tr><tr><td>2024-25</td><td>Dobari</td><td>5</td></tr></table>	FY	Name of project	Area (in Ha)	2019-20	Bera	2	2020-21	Bera	5	2021-22	Dobari	5	2022-23	Kuya	5	2023-24	Bera	3	2024-25	Dobari	5
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1	500 (Bamboo Gabion)	2015-16	Patrakulhi-Barmassia to Belgaria road																					
2	500	2018-19	PMCH,DGMS office, Coal Board residence area, Housing																					

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			<table><tr><td>Cleaning of Tisra Jore Kuya</td><td>1,54,283</td></tr><tr><td>Cleaning of drain no 2 Bastacolla colliery</td><td>1,61,772</td></tr><tr><td>Repairing and cleaning of drain bera modal colony</td><td>1,79,645</td></tr><tr><td>Cleaning of pond Singhnagar</td><td>20,589</td></tr><tr><td>Repairing and cleaning of drain MOCP</td><td>2,18,038</td></tr><tr><td>Cleaning of drain no 01 at bastacolla colliery</td><td>1,61,209</td></tr><tr><td>TOTAL</td><td>11,79,285</td></tr><tr><td>2024-25</td><td></td></tr><tr><td>Cleaning of tisra jore at kuya</td><td>2,17,702</td></tr><tr><td>TOTAL</td><td>2,17,702</td></tr><tr><td colspan="2">GRAND TOTAL</td></tr><tr><td></td><td>22,22,030</td></tr></table>	Cleaning of Tisra Jore Kuya	1,54,283	Cleaning of drain no 2 Bastacolla colliery	1,61,772	Repairing and cleaning of drain bera modal colony	1,79,645	Cleaning of pond Singhnagar	20,589	Repairing and cleaning of drain MOCP	2,18,038	Cleaning of drain no 01 at bastacolla colliery	1,61,209	TOTAL	11,79,285	2024-25		Cleaning of tisra jore at kuya	2,17,702	TOTAL	2,17,702	GRAND TOTAL			22,22,030
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	22,22,030																										
19	Any other condition that the CCF (Central), Regional Office, Bhubaneswar, may impose from time to time for protection and improvement of flora and fauna in the forest area shall also be applicable.	Agreed.																									
20	The user agency shall submit the annual compliance report in respect of the above conditions to the State Government and to the Regional Office, Bhubaneswar regularly.	Being complied. Regular compliance is being submitted.																									


परियोजना प्रमुख
Project Officer
कुईयाँ कोलियरी
Kuya Colliery



बीसीसीएल
BCCL

Bharat Coking Coal Limited



भारत कोकिंग कोल लिमिटेड
Bharat Coking Coal Limited
A Public Limited Company
Incorporated in India

Office of the General Manager, Bastacolla Area, Dhanbad-828111

Ref. No: BCCL/BA/PO/2023-24/

Date: 10.02.2024

To
The Divisional Forest Officer
Forest Division Dhanbad

Sub: ATR/Compliance Report i.r.o of Diversion of 234.08 Ha of Forest Land for Coal Mining of Open cast Mining Project in Village Ghanoodih and Bera in Favour of M/S BCCL, Dhanbad.

Dear Sir,

Please find enclosed herewith, ATR/Compliance reply by Bharat Coking Coal Limited for all 20 conditions set by Ministry of Environment and Forest along with requisite enclosures.

Submitted for your kind information, please.

Thanking You,

Enclosures: as above

Yours sincerely


Project Officer
Kuya Colliery
(Sanjeev Kashyap)
Agent/Project Officer
ABDK Colliery
Bastacolla Area-IX, BCCL

Copy to:

- 1) MoEFCC, Integrated Regional Office, Forest Division, Bungalow No. A-2, Shyamali Colony, Doranda, Ranchi, Jharkhand 834002

परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

Action taken/Compliance reply by Bharat Coking Coal Limited (BCCL) for the conditions set by MoEF in respect of Stage II Forest clearance for diversion of 234.08 ha. of Forest Land for coal mining of opencast mining project in Ghanoodih and Bera villages in favour of M/s. Bharat Coking Coal limited (BCCL) in Dhanbad district of Jharkhand.


Sl. No	Condition	Compliance / Action taken report
1	Legal status of forest land remains unchanged.	Agreed.
	a. Compensatory afforestation shall be raised and maintained by the State Forest Department at the project cost.	BCCL has deposited Rs. 2,66,50,578 towards compensatory afforestation (DD no. 441900 dated 17.09.2010, drawn in favor of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi).
	b. Fencing, protection and regeneration of the safety zone area shall be done at the project cost.	63 Nos. of pillars in Safety zones were erected at the Project cost. Safety zone = 0.98 Ha. Fencing done.
2	The boundary of safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar.	The boundary of Safety Zone was demarcated on ground at the project cost, by erecting 63 Nos. of pillars over 1310.00 m. 204 Nos.[Dobari village(171) and Bera Village(33)] Of Pillars were erected as demarcated pillar over Forest Land.
		 <p>GPS Map Camera</p> <p>धनबाद, झारखंड, भारत नाम-रहित सड़क, झारखंड 828106, भारत Lat 23.751714° Long 86.434932° 28/06/23 10:46 AM GMT +05:30</p> <p>Google</p>

Sanjeev Kashyap
Agent Project Officer
BCCL
Bera, Jharkhand

परियोजना प्रसाधक
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

3

3	The following activities shall be undertaken by the User Agency under supervision of the State Forest Department at the project cost:															
	(i) Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented.	The study has been already conducted by Indian School of Mines and we are complying with the recommendations. Proper mitigative Measures are being taken for prevention of Soil Erosion, Choking of Streams etc.														
	(ii) Planting of adequate drought hardy plant species and sowing of seeds to arrest soil erosion.	Plantation work is being carried out through Forest Department , Dhanbad at the cost of User Agency , 32.37 Ha done including departmental along with drought species(Chhatni, Khair, Babool, Palash). In addition to that, Grass seeds are being broadcasted on Slopes of OB Dumps to minimize Soil Erosion.														
	(iii) Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour.	Tender for Construction of Embankment/retention wall at chatkari Jore has been awarded & work has started.														
	(iv) The top soil management plan should be strictly adhered to.	<p>Top soil wherever available is being stacked and reused for eco-restoration purpose at Rajapur, Bera, Kuya, Dobari Eco-restoration site.</p> <table border="1"> <thead> <tr> <th>Year</th><th>Quantity (M³)</th><th>Utilization/Location</th></tr> </thead> <tbody> <tr> <td>2019-20</td><td>2000.00</td><td rowspan="5">Top Soil is being utilized in Biological Reclamation and Ecological Restoration Sites.</td></tr> <tr> <td>2020-21</td><td>2500.00</td></tr> <tr> <td>2021-22</td><td>560.00</td></tr> <tr> <td>2022-23</td><td>1500.00</td></tr> <tr> <td>2023-24</td><td>Nil</td></tr> </tbody> </table>	Year	Quantity (M ³)	Utilization/Location	2019-20	2000.00	Top Soil is being utilized in Biological Reclamation and Ecological Restoration Sites.	2020-21	2500.00	2021-22	560.00	2022-23	1500.00	2023-24	Nil
Year	Quantity (M ³)	Utilization/Location														
2019-20	2000.00	Top Soil is being utilized in Biological Reclamation and Ecological Restoration Sites.														
2020-21	2500.00															
2021-22	560.00															
2022-23	1500.00															
2023-24	Nil															
4	Whenever possible and technically feasible, the User Agency shall undertake by involving local community, the Afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.	<p>Being Complied. Total 56,000 saplings have been planted (From 2013-14 onwards).</p> <p>500 bamboo gabion plantation has been done along roadside at Barmasiya-Patrakulhi- Amtal Road.</p> <p>500 Iron gabion & 600 bamboo gabion plantation has been done in FY 2018-19.</p> <p>1500 Bamboo Gabion Plantation is done through Forest Department, Dhanbad</p>														


 (Sanjeev Kashyap)
 Agent/Project Officer
 ABDK Colliery
 Santaula Area, Jharkhand

परियोजना प्रबंधक
 Project Officer
 कुईर्यो कोलियरी
 Kuya Colliery



5	The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.	BCCL has already deposited the amount of Rs. 14,65,34,080 towards NPV (DD No. 441899 dated 17.09.2010, in favour of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi.
6	The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under Environment (Protection) Act, 1986 and any other Acts/Regulation/Rules.	EC obtained vide Ref No. J-11015/298/2010-IA-II(M) Dated 15.02.2013. Further, EC amended in 15.06.2018, 15.11.2020 & 28.03.2023.
7	The period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to granted under the Mines and Minerals (Development & Regulating) Act, 1957, or Rules framed there under, subject to a maximum period of 30 years.	Diversion is Valid up to 11.04.2042.
8	Any tree felling shall be done only when it is unavoidable under strict supervision of State Forest Department.	Tree felling is always done after receiving consent from State Forest Department. Trees felling permission for 3768 Nos. Of Trees has been obtained from HPC, Gol.

परियोजना प्रमुख
Project Officer
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Kuvra Colliery

Anjeev Kashyap
Agent/Project Officer
ABDK Colliery
Bastardola Area-IX, BCCL

- 9 No damage to the flora and fauna of the area shall be caused.

Agreed. No damage to the flora and fauna of the area shall be caused by BCCL in addition, BCCL is doing biological reclamation through eco-restoration method, in which land is being converted to replicate natural forest which attract flora and fauna leading to restoration of bio-diversity of area which is being monitored by FRI, Dehradun. Various species of flora (Psidium guajava, Albezia lebbeck, Maduca indica, Aegle marmelos, Pongamia pinnata, Heterophragma adenophyllum, Dalbergia sisoo, Ziziphus jujube) & fauna have made the site as their habitat as reported by FRI, Dehradun.

Two nos. of eco restoration park viz. Govardhan park (6.70 Ha) & Netaji Subhas Chandra Bose park (2.50 Ha) have been developed. Land is being converted to replicate natural forest which attract flora and fauna leading to restoration of bio-diversity.



- 10 No labour camps shall be set up inside the forest area.

No labour camps have been set up inside the forest area.

- 11 The user agency shall provide fuel wood preferably alternate fuel to the labourers working at the site to avoid damage/felling of trees.

BCCL is providing alternate fuel to the labourers working at the site to avoid damages/felling of trees as per the existing policy of Coal India Limited in this regard.

- 12 Demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.

204 Nos.[Dobari village(171) and Bera Village(33)] Of Pillars were erected as demarcated pillar over Forest Land.

परियोजना प्रबंधिका
Project Officer
कुईया कोलियरी
Kuya Colliery

(Sanjeev Kashyap)
Agent/Project Officer
ABD: Kuya Colliery
Rastaco: X, BCCL



13 The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.

Agreed.

14 The forest land shall not be used for any purpose other than that specified in the proposal.

Agreed and is being Complied.

15 The User Agency will ensure the dumping of OB as per the approved phased reclamation plan.

Agreed and is being Complied.

16 The user agency shall undertake mining in a phased manner and after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the User

Agreed. M/s BCCL is doing mining in phased manner and taking due care for reclamation of the mined out area. Biological (Plantation) as well as Technical Reclamation (Backfilling) is being done in Mine Leaschold considering Geo-Mining conditions.

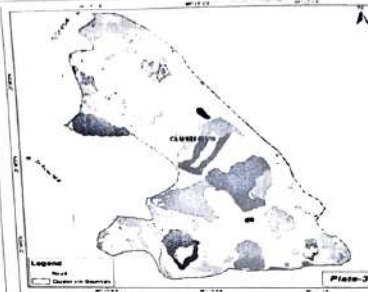
Land reclamation is being monitored through satellite surveillance every 3 years.

Nm
परियोजना पदाधिकारी
Project Officer
कुईया कोलियरी
Kuya Colliery

(Sanjeev Kashyap)
Agent/Project Officer
ABDK Colliery
Jharkhand Area-IX, BCCL

[Signature]

Agency, the Nodal Officer or Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.



Mine Closure Plan has been prepared as per the guidelines given by MoC (MCP Guideline, 2013) and Progressive Mine Closure activities are under implementation.

17	The user agency will implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy of the State Government.	Rehabilitation of people is being done under Jharia Master Plan'2008 which is approved by both Govt. of India as well as Govt. of Jharkhand. However, plan is under process of revision.
18	The user agency shall undertake de-silting of the village tanks and water bodies located within five km from the mining lease boundary so as to mitigate the impact of siltation of such tanks/water bodies, whenever required.	Being complied. De-siltation have been done in three ponds- Amtal village(02), Bastacolla . De-silting of the village tanks and water bodies is being done as per requirement and request from local bodies. Approx. Rs 6 lacs have been Spent on cleaning/de-silting of village tanks and water bodies.
19	Any other condition that the CCF (Central), Regional Office, Bhubaneswar, may impose from time to time for protection and improvement of flora and fauna in the forest area shall also be	Agreed.

(Sanjeev Kashyap)
Agent/Project Officer
ABDK Colliery
Bastacolla, Jharkhand, India.

परियोजना पदाधिकारी
Project Officer
कुईयाँ कोलियरी
Kuya Colliery

	applicable.	
20	The user agency shall submit the annual compliance report in respect of the above conditions to the State Government and to the Regional Office, Bhubaneswar regularly.	Being complied. Regular compliance is being submitted.


 परियोजना पदाधिकारी
 Project Officer
 कुईर्यो कोलियरी
 Kuya Colliery


 Project Officer
 Kuya Colliery
 (Sanjeev Kashyap)
 Agent/Project Officer
 AER
 Bastard
 BCCL

Office of the General Manager, Bastacolla Area, Dhanbad-828111

Ref. No: BCCL/BA/GM/2023-24/140

Date: 26.06.2023

27

To
The Divisional Forest Officer
Forest Division Dhanbad

Sub: ATR/Compliance Report i.r.o of Diversion of 234.08 Ha of Forest Land for Coal Mining of Open cast Mining Project in Village Ghanoodih and Bera in Favour of M/S BCCL, Dhanbad.

Dear Sir,

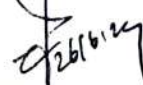
Please find enclosed herewith, ATR/Compliance reply by Bharat Coking Coal Limited for all 20 conditions set by Ministry of Environment and Forest along with requisite enclosures.

Submitted for your kind information, please.


Thanking You,

Enclosures: as above

Yours sincerely



General Manager
Bastacolla Area



General Manager
Bastacolla Area-IX

Copy to:

1. MoEFCC, Integrated Regional Office, Forest Division, Bungalow No. A-2, Shyamali Colony, Doranda, Ranchi, Jharkhand 834002
2. Office Copy


परियोजना पदाधिकारी
Project Officer
कुईयाँ कोलियरी
Kuya Colliery

Action taken/Compliance reply by Bharat Coking Coal Limited (BCCL) for the conditions set by MoEF in respect of Stage II Forest clearance for opencast mining in Ghanoodih and Bera villages in favour of M/s. Bharat Coking Coal limited (BCCL) in Dhanbad district of Jharkhand

Sl. No	Condition	Compliance / Action taken report
1	Legal status of forest land remain unchanged.	Agreed.
	a. Compensatory afforestation shall be raised and maintained by the State Forest Department at the project cost.	BCCL has already deposited the amount of Rs. 2,66,50,578 (Rupees two crores sixty six lakhs fifty thousand five hundred seventy eight) only towards compensatory afforestation raised by the State Forest Department Compensatory afforestation bearing no. 441900 dated 17.09.2010, in favour of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi. A Xerox copy of the demand draft is along with forwarding letter enclosed for ready reference as Annexure-I .
	b. Fencing, protection and regeneration of the safety zone area shall be done at the project cost.	Fencing, protection of the safety zone area has been done at the project cost of the area. 63 Nos. of pillars in Safety zones were erected at the Project cost.
2	c. The boundary of safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar.	The boundary of Safety Zone were demarcated on ground at the project cost, by erecting 63 Nos. of pillars over 1310.00 m. 
3	The following activities shall be undertaken by the User Agency under supervision of the State Forest Department at the project cost : (i) Proper mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented. (ii) Planting of adequate drought hardy plant species and showing of seeds to arrest soil erosion.	The study has been already conducted by Indian School of Mines and we are complying with the recommendations. (i) Proper mitigative Measures are being taken for prevention of Soil Erosion, Choking of Streams etc. (ii) Plantation work is being carried out through Forest Department , Dhanbad at the cost of User Agency , 22.67 Ha done including departmental along with drought species(Chhatni, Khair, Babool, Palash). In addition to that, Grass seeds are being broadcasted on

परियोजना प्रदायिका
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Kuya Colliery

(iii) Construction of check dams, retention/toe walls to arrest sliding down of the excavated material along the contour.

(iv) The top soil management plan should be strictly adhered to.

Whenever possible and technically feasible, the User Agency shall undertake by involving local community, the Afforestation measures in the blanks within the lease area, as well as along the roads outside the lease area diverted under this approval, in consultation with the State Forest Department at the project cost.

The User Agency shall furnish an undertaking to pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.

The approval under the Forest (Conservation) Act, 1980 is subject to the clearance under Environment (Protection) Act, 1986 and any other Acts/Regulation/Rules.

The period of diversion of the said forest land under this approval shall be for a period co-terminus with the period of the mining lease proposed to be granted under the Mines and Minerals (Development & Regulating) Act, 1957, or Rules framed there under, subject to a maximum period of 30 years.

Slopes of OB Dumps to minimize Soil Erosion.

(iii) Proposal is under process for construction of Check Dam. Tender for Construction of Embankment/retention wall at chat karl Jore has been finalized, work will be awarded soon.

(iv) Top Soil is being stacked separately in Kuya Colliery (OCP).

Being Complied. Total 56,000 saplings have been planted (From 2013-14 onwards). 500 bamboo gabion plantation has been done along roadside at Barmasiya- Patrakulhi- Amtal Road.

500 Iron gabion & 600 bamboo gabion plantation has been done in FY 2018-19. 1500 Bamboo Gabion Plantation done in FY 2020-21

BCCI has already deposited the amount of Rs. 14,65,34,080 (Rupees fourteen crores sixty five lakhs thirty four thousand eighty) only towards NPV raised by the Forest Department. Compensatory afforestation bearing no 441899 dated 17.09.2010, in favour of Corporation Bank Compensatory Afforestation Fund Jharkhand AC C/A 1587, payable at New Delhi. A Xerox copy of the demand draft along with forwarding letter is enclosed for ready reference as **Annexure-II.**

Environmental Clearance including the proposed area has been granted by the Ministry of Environment and Forest vide letter No J-11015/298/2010-IA.II (M) dated 15th February, 2013 which was amended on 15.06.2018 and 15.11.2020. Again amended vide letter number J-11015/298/2010-IA.II(M) dated 28.03.2023. Copy of EC is enclosed as **Annexure-III.**


Agreed.

[Signature]
परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery


8	Any tree felling shall be done only when it is unavoidable under strict supervision of State Forest Department.	Agreed. Felling of tree shall be done only when it is unavoidable and it shall be done under strict supervision of State Forest Department.
9	No damage to the flora and fauna of the area shall be caused.	Agreed. Two nos. eco restoration park viz. Govardhan park (10.17 Ha) & Netaji Subhas Chandra Bose park (2.50 Ha) have been developed.
10	No labor camps shall be set up inside the forest area.	Agreed. No labor camp is present inside the forest area.
11	The user agency shall provide fuel wood preferably alternate fuel to the laborers working at the site to avoid damage/felling of trees.	BCCL is providing alternate fuel to the labourers working at the site to avoid damages/felling of trees as per the existing policy of Coal India Limited in this regard.
12	Demarcation of mining lease area will be done on the ground at project cost using four feet high reinforced cement concrete pillars with serial numbers, forward & back bearings and distance from pillar to pillar.	It shall be complied.
13	The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.	M/s. BCCL will assist to the State Forest Department in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State, if required.
14	The forest land shall not be used for any purpose other than that specified in the proposal.	Agreed.
15	The User Agency will ensure the dumping of OB as per the approved phased reclamation plan.	It is being done as approval of Competent Authority considering present Geo-Mining Conditions.
16	The user agency shall undertake mining in a phased manner and after taking due care for reclamation of the mined over area. The concurrent reclamation plan as per the approved mining plan shall be executed by the User Agency from the very first year, and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, in the concerned State Government and the concerned Regional Office of the Ministry. If it is found from the annual report that the activities indicated in the	Agreed.


 परियोजना पदाधिकारी
 Project Officer
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 Kuya Colliery

	concurrent reclamation plan are not being executed by the User Agency, the Nodal Officer or Chief Conservator of Forests (Central) may direct that the mining activities shall remain suspended till such time, such reclamation activities are satisfactorily executed.	
17	The user agency will implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy of the State Government.	<p>There are two types of families in the project area:</p> <p>(i) BCCL employees and (ii) Non-BCCL families.</p> <p>Out of the above two categories, BCCL employees is being shifted to other company's quarters constructed at Non-Coal Bearing Areas and the other category have been identified and surveyed by Jharia Rehabilitation & Development Authority (JRDA). JRDA has been constituted for dealing with Rehabilitation and Resettlement (R&R) issues of persons residing in Jharia Coalfield (JCF).</p> <p>Responsibility of Rehabilitation and Resettlement (R&R) all the Non-BCCL families from fire and subsidence affected areas lies with JRDA as per the approved R&R package under Jharia Master Plan'2008 which is approved by both Govt. of India as well as Govt. of Jharkhand.</p> <p>In view of the above, no any separate R&R plan for implementation for rehabilitation is required in this respect.</p>
18	The user agency shall undertake de-silting of the village tanks and water bodies located within five km from the mining lease boundary so as to mitigate the impact of siltation of such tanks/water bodies, whenever required.	<p>Agreed.</p> <p>De-silting of the village tanks and water bodies is being done as per requirement and request from local bodies.</p>


परियोजना सहायिका
Project Officer
कुर्सी बाली
Kurya Colony

19	Any other condition that the CCF (Central), Regional Office, Bhubaneswar, may impose from time to time for protection and improvement of flora and fauna in the forest area shall also be applicable.	Agreed.
20	The user agency shall submit the annual compliance report in respect of the above conditions to the State Government and to the Regional Office, Bhubaneswar regularly.	Agreed.


 परियोजना पदाधिकारी
 Project Officer
 कुईर्यो कोलियरी
 Kuya Colliery


 26/6/23.
 Project Officer
 Ghanoodih/Bera/Dobari/
 Kuya



Bharat Coking Coal Ltd.
(A Subsidiary of Coal India Ltd.)
Office of the Chief General Manager
Bustacolla Area

Annexure 1

Annexure 1

Ref: BCCL IX CGM Estate 10 191

To,
The Divisional Forest Officer,
Forest Office,
Dhanbad.

Sub: Diversion of 234.08 ha. of forest land for open cast mining in Ghanoodih and Bera villages in favour of BCCL in Dhanbad district, Jharkhand.

Ref: Your letter no.3744, dated 21/08/2010.

With reference to the letter no. 8-44/2009 F.C. dated 0th Aug. 2009, from the
Sr. Assistant Inspector General of Forests, New Delhi addressed to Principal Secretary (Forest)
Govt. of Jharkhand, Ranchi and your above reference letter regarding diversion of 234.08 ha. of
forest land for open cast mining in Ghanoodih and Bera villages in favour of BCCL subject to
the following conditions

I find enclosed the Action Taken/Compliance Reply by BCCL for all the above mentioned
MCE/F.C.O. Dhanbad along with requisite enclosures. Also find enclosed the following details
as follows:

1. D.F. bearing no. 441900, dt. 17.9.2010 for Rs. 2,60,50,678 in respect of
afforestation

2. D.F. bearing no. 441898, dt. 17.9.2010 for Rs. 1,71,80,108 in respect of
Afforestation

3. D.F. bearing no. 441899, dated 17.9.2010 for Rs. 14,65,34,080 in respect of
Value

This is for your kind information and necessary action please. The Forest Clearance at the earliest.

Thanking you,

Copy to:

1. CMD, BCCL - for kind information.
2. Tech P&P, BCCL - for kind information.
3. Sr. C.D. Singh, Sr. Assist. Inspector General of Forests, Govt. Of India, M. E. F. (Forest) Bhawan,
Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110016.
4. Principal Secretary (Forests), Govt. of Jharkhand, Ranchi.
5. GM(P&P), BCCL/GM(Estate)/C, BCCL/GM(Env.) BCCL

परियोजना प्रदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery



Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)
Office of the Chief General Manager
Bastacolla Area

Annexure - 1

Annexure - 2

Ref No BCCL IX CGM Estate:10:191

Date 21/09/2010

To,
The Divisional Forest Officer,
Forest Office,
Dhanbad.

Sub : Diversion of 234.08 ha. of forest land for open cast mining in Ghanoodih and Bera villages in favour of BCCL in Dhanbad district of Jharkhand.

Ref.: Your letter no.3744, dated 21/08/2010.

With reference to the letter no. 8-44/2009-FC, dated 9th Aug., 2010 issued by Sri C.D.Singh, Sr. Assistant Inspector General of Forests, New Delhi addressed to Principal Secretary (Forests), Govt. of Jharkhand, Ranchi and your above reference letter regarding diversion of 234.08 ha of forest land for open cast mining in Ghanoodih and Bera villages in favour of BCCL subject to 21 nos. of conditions.

Find enclosed the Action Taken/Compliance Reply by BCCL for all the 21 conditions set by MoEF/DFO, Dhanbad along with requisite enclosures. Also find enclosed 3 nos. of Demand Drafts as follows:

DD bearing no. 441900, dt. 17.9.2010 for Rs. 2,66,50,578 in respect of Compensation Afforestation.

DD bearing no.441898, dt.17.9.2010 for Rs.1,71,80,106 in respect of Penal Compensatory Afforestation.

DD bearing no.441899, dated 17.9.2010 for Rs.14,65,34,080 in respect of Net Present Value.

This is for your kind information and necessary action please, so that we can get Stage-I Forest Clearance at the earliest.

Thanking you,

Encl. as above

Yours faithfully,

Chief General Manager
Bastacolla Area

Copy to

1. CMD, BCCL - for kind information.
2. D(T)P&P, BCCL - for kind information.
3. Sri C.D.Singh, Sr. Asstt. Inspector General of Forests, Govt. of India, MoEF (FC Division), Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi - 110510.
4. Principal Secretary (Forests), Govt. of Jharkhand, Ranchi.
5. GM(P&P), BCCL/GM(Estate)/C, BCCL/GM(Env.), BCCL.

etc.

परियोजना प्रबंधिका
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

State Bank of India
DEMAND DRAFT

DEMAND DRAFT

1. FORFEITURE ON DEMAND PAY BANK COMPENSATORY AFF. IND JHR AC C1A1587
 2. CURP BANK COMPENSATORY AFF. REGISTRATION FUND JHR AC C1A1587 IND JHR AC C1A1587

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KUNDAN KLIMA¹³

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

2

1. The above information was obtained from the files of the
 Federal Bureau of Investigation, Department of Justice.
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परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

Annexure -3

Annexure -3

**MINUTES OF 53rd EXPERT APPRAISAL COMMITTEE (EAC) (THERMAL & COAL MINING)
MEETING HELD ON 16th-17th JULY 2012 IN SCOPE COMPLEX, NEW DELHI.**

Cluster VIII Group of 10 Mines (Combined capacity 4.31 MTPA with a peak prodn. of 5.603 MTPA in a combined ML area of 1200.41 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, dist. Dhanbad, Jharkhand – EC based on TOR granted on 03.12.2010

The proposal was last considered in the EAC (T&C) meeting held on 23rd-24th April 2012 and issues raised therein were further considered.

The proposal is obtaining EC at the time of renewal of lease of 10 mines which are being grouped in a cluster with a combined lease area of 1200.41 ha with a normative production of 4.31 MTPA and a peak production of 5.603 MTPA. Of the 10 mines, 9 are in operation and one mine namely, Goukhor OCP is a proposed mine

It was informed that OB dump fires would be dealt with by cooling quenching and removal, excavation of fire material and filling with cohesive, soil and surface sealing and blanketing. Public Hearing was held on 25.02.2012. It was informed that Stage-I Forestry Clearance has been obtained. It was informed that an estimated 2.431 MTPA of coal would be transported from Cluster-VIII in Phase-II by conveyor to railway siding. The present levels of production from cluster-VIII are given below


EXISTING LEVEL OF PRODUCTION IN CLUSTER- VIII

NAME OF MINE	Coal production in MT for 2011-12		
	Production (in MT)	Coal recovered (MT) during executi of Master Plan	Total Production (in MT)
Bastardha UG & OCP	0.191	-	0.191
Bera UG & OCP	0.201	-	0.201
Dobari Colliery UG	0.21	-	0.21
Kuya UG & OCP	0.636	-	0.636
Ghandodh Colliery(OCP)	-	0.599	0.599
Kulama Colliery(OCP)	-	0.478	0.478
Goukhor (NC) OCP	Proposed mine (will be operational after closure of Kuya OCP)		
TOTAL	1.238	1.077	2.315

Details of voids at post mining stage land use, abandoned pits/voids that would be reclaimed and ecologically restored were presented.

Conceptual Post Mining Land use Pattern for Cluster-VIII

Existing land use	Land use (ha)				
	Plantation	Water body	Public use	Undisturbed	Total
Agriculture land	-	-	-	24.71	24.71
Excavation including dump areas	154.26	42.65	-	-	196.91
Rail & Road	-	-	-	38.92	38.92
Homestead land & service land	-	-	-	132.80	132.80
Green Belt	76.6	-	-	-	76.6
Barren land	420.22	34.70	-	-	454.92


 परियोजना पदाधिकारी
 Project Officer
 कुईर्यो कोलियरी
 Kuya Colliery

Forest land	130	120.57	-	-	250.57
Water Body	-	15.04	-	-	15.04
Others	-	-	-	9.94	9.94
Total	781.08	92.39	-	326.94	1200.41

It was informed that it is proposed to further enhance capacity of the Cluster-VIII mines by amalgamating all the individual mines thereby reflecting the highest achievable production capacity from this cluster. It was informed that a fresh application for environmental clearance would be submitted after obtaining EC, based on peak capacity with sufficient cushion for enhancing production of offsetting shortfall from other mines opening. It was informed that Stage-II Forestry Clearance has been granted by MOEF vide letter no. 8-44/2009 FC dated 12.04.2012 for 234.08 ha of forestland in Ghanoodih Bera & Dobari Colliery.

The Committee desired that the Plan for conveyor cum-rail for Cluster-VII should be dovetailed with Jharia Action Plan. The Committee desired that road transportation of coal during phase-I should be by mechanically covered trucks. The Committee desired that the rejects of washeries should be utilised in FBC based Power Plant. The Committee desired that after completion of 15 years, UG mining should be taken up. The Committee desired that the company must give priority to capacity building both within the company and to the local youth, who are motivated to carry out the work in future. The Committee desired that details of transportation, CSR, R&R and implementation of environmental action plan for each of the 17 clusters should be brought out in a booklet form. The Committee desired that a study should be initiated to analyse extent of reduction in pollution load every year by reducing road transport. The Committee also desired that the road used for coal transportation should be developed with avenue plantation on both sides. The Committee desired that expertise available internationally should be utilised for control of fire in Jharia Coalfields and for their reclamation and to further minimise time for fire and subsidence control. The Committee desired that the abandoned pits and voids should be backfilled with OB and reclaimed with plantation and or may be used for pisciculture. The Committee desired that BCCL may consider setting up a separate management structure for implementing environment policy and socio-economic issues and the capacity building required in this regard.

The Committee recommended the locations of monitoring stations in the Jharia Coalfields should be finalised in consultation with the Jharkhand State Pollution Control Board. The Committee stated that smoke/dust emission vary from source to source (fuelwood, coal, flyash from TPPs, silica from natural dust, etc) and a Source Apportionment Study should be carried out for the entire Jharia Coalfields. Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM₁₀ and PM_{2.5}) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.

The Committee recommended the project for EC to Cluster VIII and subject to implementation of the conditions as given above and given in earlier consideration by EAC of the proposal and subject to other clusters as applicable, subject to obtaining prior approval of the DGMS in regard to mine safety issues and subject to MOEF Circulars as applicable.


 परियोजना पदाधिकारी
 Project Officer
 कुईयों कोलियरी
 Kuya Colliery

BY SPEED POST

111015/298/2010-IA II (M)
Government of India
Ministry of Environment & Forests

For the attention of
The Project Officer
Kuya Colliery
Dhanbad, Jharkhand

To

The Chief General Manager (Env.),
M/s Bharat Coking Coal Ltd.,
Koyla Bhawan, Koyla Nagar,
DHANBAD - 826005
JHARKHAND

Subject: Cluster VIII Group of 10 Mines (Combined capacity 4.31 MTPA with a peak production of 5.603 MTPA) in a combined ML area of 1183.92 ha (1200.41 ha - 16.49 ha = 1183.92 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, dist. Dhanbad, Jharkhand

Sir

This has reference to the letter no. 43011/36/2010-CPAM dated 08th September, 2010 of Ministry of Coal along with your application for Terms of Reference (TOR) and this Ministry's grant of TOR on 03rd December, 2010. Reference is also invited to the letters no. BCCL/GM (Env) JEMP/T-2012-276 dated 30.03.2012, 04.07.2012, 30.01.2012 on the above-mentioned subject.


2. The Ministry of Environment & Forests has considered the application. It is noted that the proposal is for Cluster VIII Group of 10 Mines (Combined capacity 4.31 MTPA with a peak production of 5.603 MTPA in a combined ML area of 1200.41 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, dist. Dhanbad, Jharkhand. The proponent has informed that:

- The proposal is for obtaining EC at the time of renewal of lease of 10 mines which are being grouped in a cluster with a combined lease area of 1200.41 ha with a normative production of 4.31 MTPA and a peak production of 5.603 MTPA. Of the 10 mines, 9 are in operation and one mine - Goluckdih OCP is a proposed mine. Cluster-VIII is located in the eastern part of Jharia coalfields in Dhanbad, Jharkhand. The details of the proposal is as under:

Details of the land use of the mines in Cluster VIII are given below:-

LAND USE DETAILS OF CLUSTER VIII						
S.N	Name of Mine	Production capacity(MTY)		Leasehold Area (ha)	Life of mine (years)	Status
		NORMATIVE	PEAK			
1	Bastacolla OCP	0.10	0.130	239.45	3	Operating
	Bastacolla UG	0.33	0.429		18	Operating
2	Bera OCP	0.15	0.195	209.56	3	Operating
	Bera UG	0.19	0.247		13	

EC Cluster VIII BCCL


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Dohari Colliery(UG)	0.24	0.312	146.90	20	Operating
Kuya OCP	0.60	0.780	340.50	5	Operating
Kuya UG	0.10	0.130		20	Operating
Goluckdih (NC) OCP (Proposed)	1.2	1.560		25	Proposed
Proposed OCP will commence after the closure of existing Kuya OCP)					
Ghanoodih Colliery(OCP)	1.40	1.820	73.00	5	Operating
Kujama Colliery(OCP)	0.60	0.780	191.00	5	Operating
Total	4.31	5.603	1200.41		

The present levels of production from cluster-VIII are given below:

Name	Coal Production in MT for 2011-2012		
	Production (in MT)	Coal recovered (MT) during execution of Master Plan	Total Production (in MT)
Bastacolla UG & OCP	0.191	-	0.191
Bera UG & OCP	0.201	-	0.201
Dohari Colliery UG	0.21	-	0.21
Kuya UG & OCP	0.636	-	0.636
Ghanoodih Colliery (OCP)	-	0.599	0.599
Kujama Colliery (OCP)	-	0.478	0.478
Goluckdih (NC) OCP	Proposed mine (will be operational after closure of Kuya OCP)		
Total	1.238	1.077	2.315

Conceptual Post Mining Land Use Pattern for Cluster - VIII					
Existing land use	Land use (ha)				
	Plantation	Water body	Public use	Undisturbed	Total
Agriculture land	-	-	-	24.71	24.71
Excavation including dump areas	154.26	42.65	-	-	196.91
Rail & Road	-	-	-	38.92	38.92
Homestead land & service land	-	-	-	132.80	132.80
Green Belt	76.6	-	-	-	76.6
Barren land	420.22	34.70	-	-	454.92
Forest land	130	120.57	-	-	250.57
Water Body	-	15.04	-	-	15.04
Others	-	-	-	9.94	9.94
Total	781.08	92.39	-	326.94	1200.41

EC - Cluster VIII (DCE)

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The details of present, proposed and post mining land use of the cluster VIII are as follows:

LAND USE DETAILS OF CLUSTER VIII

S.N	Type Land Use	Present Mining Landuse (ha)	Proposed Mining Land use (ha)	Post- Mining Land Use (ha)
	Running quarry	5.1	273.67	0
	Backfilled	69.35	105	0
	Not Backfilled			
	Abandoned quarry			
	Backfilled	25.14	25.14	0
	Not Backfilled	42.65	42.65	0
	External OB dump	48.55	48.55	0
	Service building mine	7.9	7.9	0
	infrastructure			
	Coal dump	7.75	9.8	0
	Homestead land	118.9	118.9	118.9
	Agricultural land	24.71	24.71	24.71
	Forestland	250.57	67.11	250.57
	Plantation/reclamation	76.6	149.5	665.05
	Water body	15.04	15.04	92.39
	Barren land	460.96	265.25	0
	Road & railways,	38.92	38.92	38.92
	Mine pit/fan house haulage	6.3	6.3	0
	others	1.97	1.97	1.97
	Total	1200.41	1200.41	1200.41

Major Technical Parameter of Cluster VIII mines

Major Technical Parameter of Cluster VIII mines

Particular	Name of Mines					Total
	Bastacolla OCP (mixed)	Bera OCP (mixed)	Dobari Colliery (UG)	Kuya Colliery (mixed)	Ghanoudih Colliery (OCP)	Kujania Colliery (OCP)
Method of mining	Shovel-dumper combination & Bord & pillar	Shovel-dumper combination & Bord & pillar	Bord & pillar	Shovel-dumper combination & Bord & pillar	Shovel-dumper combination & Bord & pillar	Shovel-dumper combination
Grade of coal	OCP-D UG-C, D, W-I	OCP-C UG-D, W-I	C, D, W-I, W-II	OCP-C, E UG-C, W-INC (OCP)-E, F	W-III	W-III, W-IV W-I, C, D, E
Seam to be worked out	OCP-III Bottom UG-III Top, iii Bottom, II Bottom, I-Top	OCP-III Bottom, II UG-II Bottom-I	III Top, III Bottom,, II Bottom, I	OCP -IV Top, IV BOTTOM, III TOP, III BOTTOM, I TOP	V, VI, VII, VIII S pecial, IX, X	XI, XII, X IXVIII, VII VI, V, IV, III II, I
Linkage	Power Plant	Steel/power	Steel/pow	NA	Power	Bhojudih coal

10. Cluster VIII Mines

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Mineable Reserve MT	OCP-1.4 UG-5.48	plant OCP-0.515 UG-5.46	er plant UG-13.002	OCP-3.0 UG-2.45 NC (OCP)-26.92	plant/Road side 10.70	washery 3389
Production in (1993-94) in MT	0.24	0.1246	0.1298	0.8772	0.8995	0.0141
Proposed peak Production	OCP-0.13 UG-0.429	OCP-0.195 UG-0.247	UG-0.312	OCP-0.780 UG-0.130 NC (OCP)-1560	1.820	0.780

Details of Rehabilitation and Mitigation Measures and integration with the Jharia Action Plan will be as follows.

Rehabilitation and Mitigation Measures	
Parameter	Details
Unstable Sites	22 - Fire affected: 02 - Subsidence :16 - Fire & Subsidence: 04
- Area affected due to fire	0.18 Km ²
- Area affected due to subsidence.	0.41 km ²
- Area affected due to fire and subsidence	0.28 km ²
No. of Houses to be rehabilitated.	4959 as per JAP
Cost of Rehabilitation	Rs 15064.58 Lakhs
Cost of fire fighting	Rs 260.51 cores

Conceptual Post Mining Land use Pattern for Cluster-VIII

Existing land use	Land use				Total
	Plantation	Water body	Public use	undisturbed	
Agriculture land	-	-	-	24.71	24.71
Excavation including dump areas	154.26	42.65	-	-	196.91
Rail & Road	-	-	-	38.92	38.92
Homestead land & service land	-	-	-	132.80	132.80
Green Belt	76.6	-	-	-	76.6
Barren land	420.22	34.70	-	-	454.92
Forest land	130	120.57	-	-	250.57
Water Body	-	15.04	-	-	15.04
Others	-	-	-	9.94	9.94
Total	781.08	92.39	-	326.94	1200.41

Major issues of Cluster-VIII are as follows:

S.N.	Major Issues	Major Issues of Cluster-VIII Mitigation measures and Benefit
1.	Total Voids (128.57 ha)	51.22ha Backfilling and 77.35 ha waste body.
2.	Dumps (48.55 ha)	Use for backfilling
3.	Fire /Unstable area with 87.27 ha in 22 sites	Dig out fire and stabilise at the cost of Rs 26051 lakhs.
4.	Loss of coal (10% locked in barriers)	Recover 7.23 MT from barriers.
5.	Reclamation /Mine closure	Plantation in 704.48 ha for Rs 7202.46 lakhs
6.	Rehabilitation (4959 families)	Shifting to safe areas at the cost of Rs 29942 Lakhs
7.	CSR for a total costs of Rs. 215.5 Lakh per year @ Rs 5/T of coal	Rs. 215.5 Lakh per year @ Rs 5/T of coal
8.	Forest land (250.57 ha)	Forest clearance would be obtained
9.	Mine Closure cost	Rs 5139.59 lakhs

- ii. The cluster is mainly drained by some 1st and 2nd order seasonal nalas, which finally drain into Kashi Jore (3rd order stream) and Tisra Jore. Both these nalas flow from north to south and meet the Chatkari Jore which outfalls into River Damodar at the distance of about 8 km in the southern side. No nala diversion is required for cluster. The water table level is in the range of 1.35 to 11.03m bgl (pre-monsoon) and in the range of 0.65 to 8.93 m bgl during post-monsoon. The estimated water requirement is 5556 m³/day, of which 1992 m³/day is for mining operations and 3564 m³/day is for drinking and domestic use in the township.
- iii. The maximum subsidence over the mining area is due to extraction of upper most 3 top seams and is about 2.297m.
- iv. The mode of transportation is by road upto C. K. Railway siding. It was informed that an estimated 2.431 MTPA of coal would be transported from Cluster VIII in Phase II by conveyor to railway siding.
- v. The fire control and rehabilitation of affected families from fire and subsidence area in the cluster would be carried out in a phased manner. The fire would be dealt with by cooling, quenching and removal, excavation of fire material and filling with cohesive, soil and surface sealing and blanketing.
- vi. The Public Hearing was held on 31.01.2012.
- vii. The Stage-II Forestry Clearance has been granted vide letter no 8-44/2009 EC dated 12.04.2012 for 234.08 ha of forestland in Ghanoodih Bera and Dobari Colliery. It is proposed to further enhance capacity of the Cluster-VIII mines by amalgamating all the individual mines thereby reflecting the highest achievable production capacity from this cluster. It was informed that a fresh application for environmental clearance would be submitted after obtaining EC, based on peak capacity with sufficient cushion for enhancing production of offsetting shortfall from other mines opening.
- viii. Cluster- VIII falls in Dhanbad critically polluted area.

3. The entire Jharia Action Plan, which consists of all fire dousing projects, plans had been surveyed by DGMS, which has been designated as the monitoring and scrutinizing agency by Hon'ble Supreme Court of India under the WP (PIL) 387/1997 i.e. Haradhan Roy Vs UOI.



FC/Cluster-VIII/2012



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4 This is a violation case. As per the Office Memorandum dated 12.12.2012 issued by the Ministry of Environment and Forests, with regard to the consideration of proposals for ToR/Environment clearance/CRZ clearance involving violation of the Environment (Protection) Act, 1986/IA notification 2006/CRZ notification, 2011, the Environmental Clearance will be granted after the written commitment in the form of a formal resolution by the Board of Directors submitted to the MoEF to ensure that violations will not be repeated and the State Government concerned initiates credible action on the violation by invoking powers under Section 19 of the Environment (Protection) Act, 1986 for taking legal action under section 15 of the Act for the period for which the violation has taken place and evidence provided to the MoEF of the action taken. In this case, the Board's resolution has been received. As regards credible action, Jharkhand State Pollution Control Board, has issued directions of closure of collieries of M/S Bharat Coking Coal Limited under section 31A & 33A of Air (Prevention and Control of Pollution) Act, 1981 & Water (Prevention and Control of Pollution) Act, 1974 respectively for operating without obtaining Environmental Clearance. M/s BCCL has filed a Writ Petition (No. 4944/11) challenging the Board's directions of closure. The Jharkhand High Court has passed interim order on 25.08.2011 that "Till then, status quo, as on today, shall be maintained by the parties" and passed order on 18.01.2012 that "Until further orders, the interim order dated 25.08.2011 shall continue". In the light of interim order of the Jharkhand High Court, the State Pollution Control Board is seeking legal opinion for initiating legal action against the collieries of BCCL in the Court of Law in terms of the OM of the MoEF. The State Government has been asked to expedite taking legal opinion and taking action under intimation to the MoEF.

5. Reference is invited to the letter no. BCCL/HoD(Env.)/F-EMP/13 dated 31.1.2013, stating that the proponent has confirmed that out of 250.57 ha of forest land in cluster 8, BCCL requires only 234.08 ha for diversion of forest land to mining purpose. The balance 16.49 ha of forest land falls in Kuya mines is not required for diversion for mining purpose. In this regard, you are required to follow the guidelines issued by the FC Division of the Ministry of Environment & Forests vide no. 11-362/2012-FC dated 01.02.2013 "Guidelines for diversion of forest land for non-forest purposes under the Forest (Conservation) Act 1980. Submission of proposals to obtain forest land located within the mining lease and grant of environment clearance to mining projects" addressed to the Principal Secretary (Forests), Principal Secretary (Environment) of all the States/UT Govts. and copy to concerned Government Departments/Organisations which prescribes, inter-alia, the following:

"(iii) As regards Environment Clearance (EC) cases of existing mining operations, where approval under the FC Act for the full forest area in the mining lease area is not available, granting of EC may be considered and the following process will be adopted for processing such cases

- a) Grant of EC may be considered only for the non-forest area plus the forest area within the mining lease for which FC is available. No mining activities will be allowed in forest area for which the FC is not available; and
- b) The project proponent will seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines, failing which the mining lease area will be reduced to the non-forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed."



FC/Environ/13/10/11

परियोजना पदाधिकारी
Project Officer
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10/11/2013

The proposal was considered in the Expert Appraisal Committee (EAC) (Environmental Clearance) and recommended in its 53rd meeting held on 16-17 July, 2012 for granting Environmental clearance. The Ministry of Environment & Forests has examined the application in accordance with the EIA Notification 2006 and under the provisions thereof, hereby accords environmental clearance for the above-mentioned Cluster VIII Group of 10 Mines (Combined capacity 4.31 MTPA with a peak production of 5.603 MTPA in a combined ML area of 1183.92 ha (1200.41 ha - 16.49 ha - 1183.92 ha) of M/s Bharat Coking Coal Ltd., located in Jharia Coalfields, dist. Dhanbad, Jharkhand under the provisions of the Environmental Impact Assessment Notification, 2006 and amendments thereof and Circulars issued thereon and subject to the compliance of the terms and conditions mentioned below. You will need to seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines (i.e. 01 February, 2013), failing which the mining lease area will be reduced to the non-forest area plus the forest area for which you have been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, you will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The FC will be construed to be available for the mining lease area as per the revised mining lease deed.

A. Specific Conditions:

The maximum production shall not exceed beyond that for which environmental clearance has been granted for the mine of cluster VIII as below:

LAND USE DETAILS OF CLUSTER VIII						
S.N	Name of Mine	Production capacity(MTY)		Leasehold Area (ha)	Life mine (years)	Status
		NORMATIVE	PEAK			
1	Bastacolla OCP	0.10	0.130	239.45	3	Operating
	Bastacolla UG	0.33	0.429		18	Operating
2	Bera OCP	0.15	0.195	209.56	3	Operating
	Bera UG	0.19	0.247		13	
3	Debari Colliery(UG)	0.24	0.312	146.90	20	Operating
4	Kuya OCP	0.60	0.780	340.50	5	Operating
	Kuya UG	0.10	0.130		20	Operating
5	Goluckdih (NC) OCP (Proposed)	1.2	1.560		25	Proposed
	Proposed OCP will commence after the closure of existing Kuya OCP)					
	Ghanoodih Colliery(OCP)	1.40	1.820	73.00	8	Operating
6	Kujana Colliery(OCP)	0.60	0.780	191.00	8	Operating
	Total	4.31	5.603	1200.41		

परियोजना पदाधिकारी
Project Officer
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Kuya Colliery

- The road transportation of coal during phase I should be by mechanically covered tracks. The road for coal transportation should be developed with avenue plantation on both sides. The company must give priority to capacity building both within the company and the community who are motivated to carry out the work in future.
- The details of transportation, CSR, R&R and implementation of various guidelines should be one of the 17 clusters should be brought out in a booklet form.
- A study should be initiated to analyse extent of reduction in pollution and every year monitoring and transport.
- The expertise available internationally should be utilised for control of fire in Jharia Coalfields and for their reclamation and to further minimise time for fire and subsidence control.
- The abandoned pits and voids should be backfilled with OB and reclaimed with plantation and may be used for pisciculture.
- PCCL may consider setting up a separate management structure for implementing the policy and socio-economic issues and the capacity building required in this regard.
- The locations of monitoring stations in the Jharia Coalfields should be finalised in consultation with the Jharkhand State Pollution Control Board.
- The smoke/dust emission vary from source to source (fuelwood, coke, flyash from Jharia, etc.) from natural dust, etc) and a Source Apportionment Study should be got carried out from Jharia Coalfields.
- Mineralogical composition study should be undertaken on the composition of the particulate matter (PM₁₀ and PM_{2.5}) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.
- The proponent shall prepare time-series maps of the Jharia Coalfields through NRSA to monitor and prevent fire problems in the Jharia Coalfields by Isothermal mapping (imaging and monitoring temperatures of the coal seams (whether they are close to spontaneous combustion temperatures) and based on which, areas with potential fire problems shall be identified.
- Measures to prevent ingress of air (Ventilation) in such areas, to prevent restart fresh/slow fires in other areas including in mines of cluster VIII shall be undertaken.
- Underground mining should be taken up after completion of reclamation of opencast mines after 15 years.
- No mining shall be undertaken where underground fires continue. At least once a year prevent check such fire including in old OB dump areas where the fire is still in the presence of coal/shale with sufficient carbon content.
- The rejects of washeries in Cluster -VII should be send to FBC based plant.
- There shall be no external OB dumps. At the end of the mining there shall be no void and the entire mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter.
- A detailed calendar plan of production with plan for OB dumping and backfilling (for OB mining) and reclamation and final mine closure plan for each mine of cluster-VII shall be drawn up and implemented.
- The void shall be converted into a water reservoir of a maximum depth of 15-20 m and shall be gently sloped and the upper benches of the reservoir shall be stabilised with plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and biologically reclaimed with plantation and or may be used for pisciculture.


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- XX Mining shall be carried out as per statuette from the streams/nalas flowing within the lease and maintaining a safe distance from the Nalas flowing along the lease boundary. A safety barrier of a minimum 60m width shall be maintained along the nalas/water bodies. The small water bodies in OC shall be protected to the extent feasible and the embankment proposed along water body shall be strengthened with stone pitching.
- XXI Active OB dumps near water bodies and rivers should be rehandled for backfilling abandoned mine voids. However, those which have been biologically reclaimed need not be disturbed.
- XXII Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. During post mining stage, a total of 704.48ha area would be reclaimed. The total additional area under plantation would be 345.06 ha (67.79 ha abandoned quarry area, 277.27 ha active quarry area, 48.55 OB dump outside quarry area, 6.30 ha service building mine infrastructure area /coal dump etc, 108.26 ha green belt around OCP, 196.31 ha barren area), by planting 1761200 plants in 704.48 ha at a total cost Rs 7202.46 lakhs.
- XXIII The road should be provided with avenue plantation on both side as trees act as sink of carbon and other pollutant.
- XXIV Specific mitigative measures identified for the Jharia Coalfields in the Environmental Action Plan prepared for Dhanbad as a critically polluted area and relevant for Cluster VII shall be implemented.
- XXV The locations of monitoring stations in the Jharia Coalfields should be finalized in consultation with the Jharkhand State Pollution Control Board. The Committee stated that smoke/dust emission vary from source to source (fuel wood, coal, flyash from TPPs, silica from natural dust, etc) and a Source Apportionment Study should be got carried out for the entire Jharia Coalfields. Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM10 and PM2.5) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.
- XXVI No groundwater shall be used for the mining activities. Additional water required, if any, shall be met from mine water or by recycling/reuse of the water from the existing activities and from rainwater harvesting measures. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry to dewatering of mine.
- XXVII Regular monitoring of groundwater level and quality of the study area shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality including Arsenic and Fluoride during the month of May. Data thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board/SPCB quarterly within one month of monitoring. Rainwater harvesting measures shall be undertaken in case monitoring of water table indicates a declining trend.
- XXVIII Mine discharge water shall be treated to meet standards prescribed standards before discharge into natural water courses/agriculture. The quality of the water discharged shall be monitored at the outlet points and proper records maintained thereof and uploaded regularly on the company website.

EC Cluster VII (BCL)

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- xxix. ETP shall also be provided for workshop, and CHP, if any. Effluent, shall be treated to conform to prescribed standards in case discharge into the natural water course.
- xxx. Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.
- xxxi. Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.
- xxxii. High root density tree species shall be selected and planted over areas likely to be affected by subsidence.
- xxxiii. Depression due to subsidence resulting in water accumulating within the low lying area shall be filled up or drained out by cutting drains.
- xxxiv. Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.
- xxxv. No depillaring operation shall be carried out below the township/colony.
- xxxvi. The Transportation Plan for conveyor-cum-rail for Cluster-VIII should be dovetailed with Jharia Action Plan. Road transportation of coal during Phase-I should be by mechanically covered trucks, which should be introduced at the earliest. The Plan for conveyor-cum-rail for Cluster VII should be dovetailed with Jharia Action Plan. The road transportation of coal during phase I should be by mechanically covered trucks.
- xxxvii. A study should be initiated to analyze extent of reduction in pollution level every year leading to road transport.
- xxxviii. R&R of 4959 nos of PAF's involved. They should be rehabilitated at cost of shifting to safe areas at the cost of Rs 29948 Lakhs as per the approved Jharia Action Plan.
- xxxix. A detailed CSR Action Plan shall be prepared for Cluster VIII group of mines. Specific activities shall be identified for CSR the budget of Rs. 215.5 Lakhs per year @ Rs 5/T of coal as recurring expenditure. The 265.25 ha of area within Cluster VIII ML existing as waste land and not being acquired shall be put to productive use under CSR and developed with fruit bearing and other useful species for the local communities. In addition to afforesting 250.57 ha of area at the post-mining stage, the waste land /barren land within Cluster VIII ML shall be rehabilitated/reclaimed as forest/agricultural land under CSR Plan in consultation with local communities. Third party evaluation shall be got carried out regularly for the proper implementation of activities undertaken in the project area under CSR. Issue raised in the Public Hearing shall also be integrated with activities being taken up under CSR. The details of CSR undertaken along with budgetary provisions for the village-wise various activities and expenditure thereon shall be uploaded on the company website every year. The company must give priority to capacity building both within the company and to the local youth, who are motivated to carry out the work in future.


परियोजना पदाधिकारी
Project Officer
कुईयाँ कोलियरी
Kuya Colliery

for monitoring land use pattern and for post mining land use. A time series satellite map based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MMD, Regional office at Bhubaneswar.

XII A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem which were conserved in-situ and ex-situ in an identified area within the lease for re-introduction in the mine during mine reclamation and at the post mining stage for habitat restoration.

XIII A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company for implementing environment policy and socio-economic issues and the capacity building required in this regard.

XIII Implementation of final mine closure plan for Cluster VIII, subject to obtaining prior approval of the DGMS in regard to mine safety issues

XIV Corporate Environment Responsibility:

- The Company shall have a well laid down Environment Policy approved by all Board of Directors.
- The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Head of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions:

- No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.
- No change in the calendar plan of production for quantum of minerals shall be made.
- Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM_{10} , $PM_{2.5}$, SO_2 and NO_x monitoring. 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. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- Data on ambient air quality (PM_{10} , $PM_{2.5}$, SO_2 and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HMM, etc shall be provided with ear plugs/muffs.

Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.

Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.

Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.

Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.

A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.

The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneswar.

The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days 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 may also be seen at the website of the ministry of Environment & Forests at <http://envfor.nic.in>.

A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal corporation or Urban local body and local NGO, if any, from whom any suggestion representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.

A copy of the environmental clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.

The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance 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.

The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.

The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office of CPCB and the SPCB.

The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

(xix) The Environmental statement for each financial year ending shall be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended. The statement shall also be uploaded on the company's website along with the status of compliance of EIA conditions and shall be sent to the respective Regional Offices of the MoEF by 1st month of

6. The Ministry or any other Competent Authority may stipulate such conditions for environmental protection.

7. Failure to comply with any of the conditions mentioned above may result in withdrawal of clearance and attract the provisions of the Environment (Protection) Act, 1986.

8. The above conditions will be enforced *inter-alia*, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.


9. The Environmental Clearance is subject to the outcome of the Writ Petition filed by Bhilai Coking Coal Limited (BCCL) in response to the closure orders issued by the Jharkhand Pollution Control Board which is pending in the Jharkhand High Court.


(Dr. Manoranjan H. H.)
Director

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A-11, Chandrashekarpur, Bhubaneswar - 751023.
4. Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C. Dhurwa, Ranchi - 834004.
5. Chairman, Central Pollution Control Board, CBD-cum-Office Complex, P.O. Aerodrome, New Delhi - 110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Jangpda Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, dist. Dhanbad Government of Jharkhand.
8. Monitoring File 9. Guard File 10. Record File
- 9.


(Dr. Manoranjan H. H.)
Director


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

1. Chd. CTE/BCCL

File No. J-11015/298/2010-IA.II (M)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan,
Jorbagh Road, N Delhi - 3
Email: munna.shah@gov.in ; Tel: 011-20819177

Dated: 28th March, 2023

To

The General Manager
M/s Bharat Coking Coal Limited,
Kusunda Area, Koyla Bhawan,
Koyla Nagar, Dhanbad - 5 (Jharkhand).
E-mail: gmenv.bccl@coalindia.in

Sub: Cluster VIII Coal mining project of production capacity 5.603 MTPA in total mine lease area of 1183.92 ha by M/s Bharat Coking Coal Limited located in Jharia Coalfields, District Dhanbad (Jharkhand) – For Amendment of Environmental Clearance letter dated 15.02.2013 – reg.

Sir,

This has reference to your online proposal no. IA/JH/C/MIN/297114/2023 dated 31st January, 2023, on the above-mentioned subject.

2. The Ministry of Environment, Forest and Climate Change has considered the proposal for amendment in Environment Clearance dated 15th February, 2013. The proposal is of Cluster VIII Coal mining project of production capacity 5.603 MTPA in total mine lease area of 1183.92 ha by M/s Bharat Coking Coal Limited located in Jharia Coalfields, District Dhanbad (Jharkhand). Amendment in EC has been granted by Ministry vide its letter dated 15th July, 2018 and further amendment vide letter dated 15th November, 2020, due to restructuring of production capacities of individual mine in the Cluster.

3. Now, Project Proponent has again requested for amendment in Environment Clearance to particularly increasing in capacity of Bastacolla and Kuya Colliery production capacities only as mentioned below to facilitate complete extraction of Coal up to the Bottom Seam, make available larger space for keeping OB, thereby reducing the requirement of re-handling of OB enabling better and speedier reclamation (technical and biological) works. This will enable de-coaled areas to provide space for storage of OB extracted for fiery coal excavation within the cluster to implement the Master Plan approved by Govt. of India. Mining Plan and Mine Closure Plan of the mine undergoing change i.e. Bastacolla Colliery and Kuya Colliery was approved in the 396th Board meeting of BCCL held on 24.01.2023.

Munna Shah



परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

Following is the details of production capacity with mine lease area from original EA dated 1st February, 2013 and later amended dated 15th November, 2020 and further changes proposed particularly for increase in capacity of Bastacolla and Kuya Colliery from 1.80 to 2.10 MTPA and 2.60 to 2.80 MTPA respectively without any changes in overall capacity and mine lease area;

Sl. No	Name of the Mine	Initial EC (Dated 15.02.2013)			Amendment dated 15.11.2020 (Existing)			Modification sought			
		Type of Mine	Peak Production Capacity (MTPA)	Lease Area (Ha)	Type of Mine	Peak Production Capacity (MTPA)	Lease Area (Ha)	Type of Mine	Peak Production Capacity (MTPA)	Lease Area (Ha)	Proposed Amendment
1	Bastacolla Colliery	OC	0.13	239.45	Mixed	1.80	239.45	Mixed	2.10	239.45	Change in Capacity
		UG	0.429								
2	Bera Colliery	OC	0.195	209.56	OC	0.195	209.56	OC	0.195	209.56	No Change
		UG	0.247								
3	Dobari Colliery	UG	0.312	146.90	OC	3.86	146.90	OC	3.86	146.90	No Change
4	Ghanoodih Colliery	OC	1.82	73.0	OC	1.82	73.00	OC	1.82	73.00	No Change
5	Kuya Colliery	UG	0.13	324.01 (340.50 -16.49)	OC	2.60	324.01 (340.50-16.49)	OC	2.80	324.01 (340.50 -16.49)	Change in Capacity
		OC	0.78								
		Goluckdih (NC)	OC	1.56							
6	Kujama Colliery	OC	0.78	191.0	OC	0.78	191.00	OC	0.78	191.00	No Change
Total			5.603*	1183.92		5.603*	1183.92		5.603*	1183.92	

Munirah

परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

Production Schedule for individual mines showing Numeric addition of Production each year within Cluster Limit of 5.603 MTPA (Peak production will be achieved in different years).

Name of Mine	Type of Mine	Peak Production Capacity (In MTPA)		Production Schedule & Increase/ Decrease in Production Capacity (As per Peak Capacity) (In MTPA)					Remarks
		Exis- ting	Propo- sed	Year-I	Year-II	Year- III	Year- IV	Year- V	
Bastacolla Colliery	OC	1.80	2.10	2.00	2.10	2.10	2.10	1.80	Increase in Production (Change in Peak)
				(+0.20)	(+0.30)	(+0.30)	(+0.30)	(-0.30)	
Bera Colliery	Mixed	0.442	0.442	0.00	0.00	0.00	0.00	0.00	Reduction in Production
				(-0.442)	(-0.442)	(-0.442)	(-0.442)	(-0.442)	
Dobari Colliery	OC	3.86	3.86	0.00	0.00	0.60	0.40	0.40	Reduction in Production
				(-3.86)	(-3.86)	(-3.26)	(-3.46)	(-3.46)	
Kuya Colliery	OC	2.60	2.80	2.80	2.70	1.50	0.783	0.00	Increase in Production (Change in Peak)
				(+0.20)	(-0.10)	(-1.10)	(-1.817)	(-2.46)	
Ghanoodih Colliery	OC	1.82	1.82	0.00	0.00	0.60	1.50	1.50	Reduction in Production
				(-1.82)	(-1.82)	(-1.22)	(-0.32)	(-0.32)	
Kujama Colliery	OC	0.78	0.78	0.78	0.78	0.78	0.78	0.78	No Change in Production
				(+0.00)	(+0.00)	(+0.00)	(+0.00)	(+0.00)	
Total		5.603*	5.603*	5.58	5.58	5.58	5.563	4.48	

4. The proposal was considered by the Expert Appraisal Committee (EAC) in its 45th meeting held during 16 -17 February, 2023 in the Ministry. The Committee has recommended the proposal for amendment in the environmental clearance dated 15th February, 2013, as proposed by the project proponent and mentioned in the table at para 3 above

5. Based on the proposal submitted by the project proponent and recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for amendment in the Environmental Clearance dated 15th February, 2013 to Cluster VIII Coal mining project at

Page 3 of 4

EC Amendment to Cluster VIII of M & B CCL

[Signature]

परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

production capacity 5.603 MTPA in total mine lease area of 1183.92 ha by M/s Bharat Coking Coal Limited located in Jharia Coalfields, District Dhanbad (Jharkhand), as stated in the table at para 3 above, under the provisions of EIA Notifications, 2006 and its amendments therein, subject to following additional condition for environmental safeguards;

- (i) PP to obtain the latest CTO from SPCB after grant of EC amendment, reflecting the capacities of each mines within overall mine lease area (1183.92 ha).
- (ii) PP shall to install 5 numbers of fog cannon with adequate throw length for suppression of fugitive dust in opencast mine within 6 months.
- (iii) PP shall deploy 5 numbers of mechanical sweeper for road cleaning in and around the 5 km of the project area.
- (iv) PP shall obtain Certified compliance report of previous EC and EC amendments letter from Ministry's IRO-Ranchi within six months from the date of issue of this letter.
- (v) PP shall conduct grassing on 15.00 Ha OB Dump and Plantation on 25.00 Ha within 1 one year and status shall be submitted with geotagged proof to Ministry's IRO with six monthly compliance report.

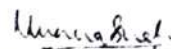
6 All other terms and conditions stipulated by Ministry its letters vide dated 15th February, 2013, 15th July, 2018 and 15th November, 2020 shall remain unchanged.


This issues with the approval of the competent Authority


(Munna Kumar Shah)
Scientist E

Copy to:

1. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi
2. The Additional Principal Chief Conservator of Forests, Regional office (ECZ), Ministry of Environment & Forests, Bungalow No. A-2, Shyamali Colony, Ranchi - 834002
3. The Secretary, Department of Environment & Forests, Government of Jharkhand, Secretariat, Ranchi
4. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
5. The Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
6. The Member Secretary, Jharkhand State Pollution Control Board, TA Building, HEC Complex, PO Dhurwa, Ranchi
7. The District Collector, Dhanbad, Government of Jharkhand
8. Monitoring File/Guard File
9. PARIVESH


(Munna Kumar Shah)
Scientist E


परियोजना पदाधिकारी
Project Officer
कुईयाँ कोलियरी
Kuya Colliery



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RESTRICTED

The information given in this report is not to be communicated either directly or indirectly to the press or to any person not holding an official position in the CIL/ Government.

BHARAT COKING COAL LIMITED

MODIFIED MINING PLAN

AND

MINE CLOSURE PLAN

FOR

KUYA COLLIERY

(BASTACOLLA AREA)

PEAK CAPACITY : 2.80 Mty

JANUARY – 2023

CENTRAL MINE PLANNING & DESIGN INSTITUTE LTD.
REGIONAL INSTITUTE NO.- II
DHANBAD


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

**MODIFIED MINING PLAN AND MINE CLOSURE PLAN
FOR
KUYA COLLIERY**

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 परियोजना पदाधिकारी
 Project Officer
 कुईर्यो कोलियरी
 Kuya Colliery

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 परियोजना पदाधिकारी
 Project Officer
 कुईर्यो कोलियरी
 Kuva Colliery

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परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

List of Abbreviations used in the report

BCCL	- Bharat Coking Coal Limited
RF	- Representative Factor
MECL	- Mineral Exploration Corporation Limited
UVM	- Unit Volatile Matter
UHV	- Useful Heat Value
GCV	- Gross Calorific Value
BH	- Bore Hole
B&P	- Bord and Pillar
SDL	- Side Discharge Loader
DB	- District Board
SOP	- Standing on Pillar
OC	- Open Cast
OB	- Over Burden
HEMM	- Heavy Earth Moving Machinery
CMR	- Coal Mines Regulations
DGMS	- Directorate General of Mines Safety
UG	- Underground/Ungraded
GPM	- Gallon Per Minute
HT/LT	- High/Low Tension
HP	- Horse Power
DVC	- Damodar Valley Corporation
BOD	- Biological Oxygen Demand
MCP	- Mine Closure Plan


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery



75
आज़ादी का
अमृत महोत्सव

भारत कोकिंग कोल लिमिटेड
Bharat Coking Coal Limited

(A Mini Ratna Company)
(A Subsidiary of Coal India Ltd.)

प. कार. - कोयला भवन, कोयला नगर, धनबाद - 826005

Regd. Off: Koyla Bhawan, Koyla Nagar, Dhanbad - 826005

CIN: U10101JH1972GOI000918

ईमेल: cas.bcccl@coalindia.in वेबसाइट: www.bcccl.co.in दूरभाष: 0326-2230190

बोर्ड सचिवालय/Board Secretariat

पत्रांक बीसीसीएल/सीएस/एफ- 1(A)/2023/48(H)

दिनांक: 03.02.2023

सेवा में,
महाप्रबंधक (परियोजना व योजना),
बीसीसीएल, कोयला भवन

विषय: Certified copy of Minutes of 396th Board Meeting held on 24.01.2023.

Dear Sir,

We send herewith certified copy of Minutes of Item No.396.POT-1 & POT-2 of 396th Meeting of the Board of Directors of Bharat Coking Coal Limited held at Registered Office, Koyla Bhawan, Dhanbad on 24.01.2023 for taking necessary action at your end.

Encl: As above

भवदीय,

बी के पाकड़
रूपरेखा सचिव

परियोजना प्रदाधिकारी
Project Officer
कुईया कोलियरी
Kuya Colliery

Item No. 396 POT-1

Approval of Mining Plan along with Mine Closure Plan of Bastacolla Colliery.

Background:

Bastacolla Colliery is one of the existing/operating mines of the Cluster-VIII group of mines under the administrative control of Bastacolla Area, BCCL. Bastacolla Colliery is part of OCP-VIII Geological Coal Block of Jharia Coalfield (GR-Feb.1999). It is about 2 to 3 km South-West of Dhanbad Railway Station. Chatkari Jore flows along Eastern boundary of Bastacolla Colliery. Dhanbad-Jharia DB Road passes along the southern (part) and western boundary of the mine. The area under consideration is located in north-eastern part of Jharia coalfield. Presently opencast mining operation has been going on in Bastacolla Colliery from 2020-21. Production from Underground mining system was done up to Oct-2021 and thereafter, underground mining operation stopped.

The proposal was placed in the 30th ESC (T) held on 24.01.23 and after consideration of the proposal, the same has been recommended for approval of Board.

Decision:

After detailed deliberation of the proposal, the Board passed the following resolution:

Resolved that the revised Mining Plan along with Mine Closure Plan of Bastacolla Colliery having Peak Capacity 2.10 MTPA, Lease hold Area 239.45 Ha, Balance Life 11 Years and the total Mine Closure cost being ₹35.328177Cr. (including the already deposited amount of ₹4.883167 Cr.) as recommended by the Empowered Sub Committee(T) of BCCL be and is hereby approved.

Further Board also directed that entire mining operation should be carried out as per the Statutory provisions under Mines Act 1952, Coal Mines Regulation 2017 and wherever specific permission is required, the management shall approach the concerned authorities.

Item No. 396.POT-2

Approval of Mining Plan along with Mine Closure Plan of Kuya Colliery.

Background:


Kuya Colliery was one of the existing/operating mines under the administrative control of Bastacolla Area, BCCL. Mining activities at Kuya Colliery going on since pre- nationalization. Resource in the present work is estimated after deducting already depleted reserves. Base date of the reserve has been considered as 01.04.2022. Resource in the present work is estimated after deducting already depleted reserves. Base date of the reserve has been considered as 01.04.2022.

PURPOSE & SCOPE OF THE REPORT:

Due to enhancement in coal production and for modification of EC, this mining plan and mine Closure plan has been prepared. The scope of the mining plan is limited to opencast extraction of IV Top, IV Bot, III Top, III Bot seams. The life of the mine will be 04 years.

Certified to be True Copy


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery


B. K. Parui
Company Secretary
Bharat Coking Coal Limited
Koyla Bhawan
Dhanbad- 826005


Sanjeev Kumar
Assistant Engineer
Bastacolla Area
BCCL

The proposal was placed in the 30th ESC (T) held on 24.01.23 and after consideration of the proposal, the same has been recommended for approval of the Board.

Decision:

After detailed deliberation of the proposal, the Board passed the following resolution:

Resolved that the revised Mining Plan along with Mine Closure Plan of Kuya Colliery having Peak Capacity 2.80 MTPA, Lease hold Area 340.50 Ha, Balance Life 04 Years and the total Mine Closure cost being ₹35.4329 Crs, (including the already deposited amount of ₹15.0765 Cr.) as recommended by the Empowered Sub Committee(T) of BCCL be and is hereby approved.

Further Board also directed that entire mining operation should be carried out as per the Statutory provisions under Mines Act 1952, Coal Mines Regulation 2017 and wherever specific permission is required, the management shall approach the concerned authorities.

Certified to be True Copy


B. H. Parui
Company Secretary
Bharat Coking Coal Limited
Koyla Bhawan
Dhanbad- 826005




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Kuya Colliery

Chapter 1: Project Information

	Parameters	Details
1.1	INTRODUCTION	
1.1.1	Name of Coal / Lignite Block	Mukunda Exploration Block (Proposed leasehold area is covered under "Geological Report on exploration for coal in Mukunda Open Cast Block" prepared by CMPDIL, RI-2 in July 1981)
1.1.2	Name of the Coalfield/Lignite Field	Jharia Coalfield
1.1.3	Base date of Mining Plan / Mine Closure Plan	April, 2022
1.1.4	Linked End Use Plant	Power Houses & Steel Plants Coal production of the mine is linked to different power houses (Power plants of DVC and other companies) and washeries (Bhojudih washery & Dugda washery) through CK (West), BNR siding and Burragarh siding and rest quantity is transported through road to MPL, RTPS and E- Auction etc.
1.1.5	Distance of End use plant from the pit head of the project in "km"	The present lead for coal transportation from face to surface is 1 to 2 Km. C. K. West Siding is 3 to 4 KM, Burragarh Siding is 7 to 8 km, GOAL 6 Railway Siding about 2 km and BNR Siding is about 10 KM from the coal dump.
1.1.6	Mode of Coal Transport	Trucks and Railway

1.2 LOCATION, TOPOGRAPHY AND COMMUNICATION

	Parameters	Details
1.2.1	Location of coal deposit (District and State)	Dhanbad, Jharkhand.

1.2.2	Communication: PWD roads, railway lines, Air	<p>I. It is about 6 KM away from Dhanbad Railway Station and connected by Dhanbad Baliapur road.</p> <p>II. The proposed project area is about 5 Km west of Jharia town and can be approached easily by Dhanbad-Jharia-Sindri road.</p>
1.2.3	Availability of power supply, water etc.	<p>Power Supply Arrangement:</p> <p>Kuya opencast project is receiving power at 33 KV/11KV from Goluckdih Main Sub-Station. The existing transformers at KOCP are as under: -</p> <ol style="list-style-type: none"> 1. Transformer: 11 KV/ 3.3 KV -1000KVA 2. Lighting Transformer: 11 KV/ 440V - 100KVA 3. Lighting Transformer: 11 KV/ 440V - 500KVA 4. Lighting Transformer: 3.3KV/ 220V - 10KVA 5. Lighting Transformer: 11 KV/ 440V - 100KVA 6. Lighting Transformer: 11 KV/ 400V - 500KVA 7. Lighting Transformer (2 Nos): 500 KV/ 220V - 10KVA 8. Lighting Transformer: 500 KV/ 440V - 20KVA 9. Lighting Transformer: 11 KV/ 440V - 250KVA 10. Power Transformer: 11 KV/ 3.3V - 2.5KVA 11. Power Transformer: 11 KV/ 550V - 750KVA 12. Lighting Transformer: 500 KV/ 440V - 100KVA 13. Lighting Transformer: 500 KV/ 440V - 250KVA 14. Lighting Transformer: 500 KV/ 440V -

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		250KVA Existing arrangement is sufficient to cater proposed mine-operation.												
1.2.4	Prominent physiographic features, drainage pattern, natural water courses, rainfall data, highest flood level.	<ol style="list-style-type: none">1. Climate Zone = Sub-humid region2. Maximum Temperature = 48⁰ C during summer (April to middle of June)3. Minimum Temperature = 6⁰ C during winter (December to January)4. Average Annual Precipitation = 140 cm (June to September)5. Topography = Undulating with a gentle southward slope. Due to mining activities over 100 years, several small quarries, subsided goaf, OB dump etc. have been shattered the original topography of the area. The highest elevation (214.65 m) has been observed near borehole no. NGK-28 in the northern part, whereas, the lowest ground elevation (184.54 m) has been observed in the southern corner of the block around borehole No NGK-2.6. Drainage = The drainage of the block is mainly controlled by a small nala, Tisra Jore is flowing from north to south.												
1.2.5	Land use and ownership / occupancy & involvement of forest land	<table><tr><th>PARTICULARS</th><th>AREA (in Hectare)</th></tr><tr><td>BCCL Land</td><td>141.33</td></tr><tr><td>Forest Land</td><td>117.51#</td></tr><tr><td>Govt. Land</td><td>35.06</td></tr><tr><td>Tenancy Land</td><td>46.60</td></tr><tr><td>Total Land</td><td>340.50</td></tr></table> <p># Out of the above forest land, forest Clearance in respect of remaining 16.49 Ha is</p>	PARTICULARS	AREA (in Hectare)	BCCL Land	141.33	Forest Land	117.51#	Govt. Land	35.06	Tenancy Land	46.60	Total Land	340.50
PARTICULARS	AREA (in Hectare)													
BCCL Land	141.33													
Forest Land	117.51#													
Govt. Land	35.06													
Tenancy Land	46.60													
Total Land	340.50													

		under process. The land other than BCCL holding has to be transferred to BCCL / to be acquired by BCCL.
1.2.6	Important surface features within the project area and major diversion or shifting involved	<p><u>Diversion of Road:</u></p> <p>A part of Jharia-Baliapur DB Road, passing through the proposed project area, will be affected due to the operation of the proposed opencast. The affected part of the said road has to be substituted by construction of alternative road.</p>

1.3 DETAILS OF THE ALLOTMENT AGREEMENT

	Parameters	Details
1.3.1	Name the Allottee	NA
1.3.2	Status of the Applicant Company	NA
1.3.3	Details of allotment / vesting order	NA
1.3.4	Name and address of the applicant	NA
1.3.5	Relationship between the applicant and allottee company	NA
1.3.6	Name of the previous allottee of the Block	NA
1.3.7	Starting Date of the Mine as per CMDPA	NA
1.3.8	Rated Capacity as per CMDPA	NA
1.3.9	Production Schedule as per opening permission (meeting provisions of	NA

	CMDPA if any)	
1.3.10	End Use of Coal/Lignite as per allotment order if any	NA

1.4 DETAILS OF THE PREVIOUS APPROVAL OF MINING PLAN

	Parameters	Details
1.4.1	Date of Approval	23.03.2022
1.4.2	Conditions, if any	
1.4.3	Scheduled year of start of production	Running mine. Earlier Mining plan was prepared for enhancement in coal production.
1.4.4	Proposed year of achieving the targeted production	NA
1.4.5	Date of actual commencement of mining operations, if operations already started	Running mine. Earlier Mining plan was prepared for reopening and grade declaration of III top seam.
1.4.6	Likely date of mining operations, if operations not yet started & reasons for non-commencement of operations	Not Applicable
1.4.7	Planned production and actual levels achieved in last 3 years (Coal in Mte, OB in MM ³ , SR in M ³ /te	Planned production for last 3 years as per approved Mining plan of Kuya Colliery and actual production from Kuya Colliery are given below Planned production: 2019-20: 1.84 Mte 2020-21 : 1.41 Mte 2021-22 : 1.15 Mte Actual production : 2019-20: 1.461 Mte 2020-21 : 1.799 Mte 2021-22 : 2.591 Mte
1.4.8	Statutory obligation vis-à-vis compliance status in a	

	tabular form	
1.4.9	Reasons for difference between the planned and actual production levels	Better utilization of HEMM

1.5 PARAMETERS OF APPROVED MINING PLAN VIS-À-VIS PROPOSED MININ PLAN

	Parameters	Details	
		Approved Mining Plan (2017-18)	Proposed Mining Plan (2022-23)
1.5.1	Block Area in "Ha"	340.50	340.50
1.5.2	Block Area Projectized "Ha"	182.88	182.88
1.5.3	Lease area "Ha"	340.50	340.50
1.5.4	Project Area "Ha"	300.50	300.50
1.5.5	Life of the Project "Yrs"	15	4
1.5.6	Maximum Depth of working "m"	140	140
1.5.7	Net Geological Block "Ha"	340.50	340.50
1.5.8	Production Target "MTPA"	2.60	2.80
1.5.9	Seams Available "As per GR"	IV Top, IV Bot, III Top, III Bot, II Top, II Bottom and I seams	IV Top, IV Bot, III Top, III Bot, II Top, II Bottom and I seams
1.5.10	Seams not considered for Mining with Reasons	II Top, II Bottom and I seams	II Top, II Bottom and I seams
1.5.11	Gross Geological Reserve within leasehold boundary "Mt"	63.82	52.61
1.5.12	Net Geological Reserve within leasehold boundary "Mt"	57.44	47.348
1.5.13	Blocked Reserve "Mt"	38.700	38.700
1.5.14	Net Geological Reserve	18.74	8.648

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	within delineated quarry "Mt"		
1.5.15	Mining Reserve / Extractable Reserve "Mt"	16.87	7.783
1.5.16	% of Extraction/recovery	90%	90%
1.5.17	Reserve Depleted (till the base date) Reserves "Mt"	Mining activities are going on in Kuya colliery since pre-nationalization period. At present, opencast mining is under progress in the colliery. Resource in the present work is estimated after deducting already depleted reserves. Base date of the reserve has been considered as 01.04.2017	Mining activities are going on in Kuya colliery since pre-nationalization period. At present, opencast mining is under progress in the colliery. Resource in the present work is estimated after deducting already depleted reserves. Base date of the reserve has been considered as 01.04.2022
1.5.18	Balance Extractable reserves "Mt"	16.87	7.783
1.5.19	Grade range	G6-G12	G6-G12
1.5.20	OB in MM ³	95.34	59.61
1.5.21	SR MM ³ /te	5.65	7.659
1.5.22	Mining Technology	Shovel-Dumper combination	Shovel-Dumper combination
1.5.23	Coal Beneficiation envisaged	NA	NA
1.5.24	Handling of Rejects	NA	NA
1.5.25	Proposed land use / component wise land break up "Ha"		
	<i>Parameters</i>	<i>Details</i>	
	Quarry including backfilling,	268.50	268.50

	haul road etc.		
	External OB Dump	21.11	21.11
	Infrastructures (colony, W/Shop, sub-station office, Road, etc.)	13.89	13.89
	Water body including nalla and embankment	4.12	4.12
	Green belt including already planted area and proposed plantation on vacant land.	24.45	24.45
	Safety Zone	8.34	8.34
	Total	340.50	340.50
1.5.26	Post Mining Land use pattern "Ha"		
	<i>Parameters</i>	<i>Details</i>	
1	Excavation Area	195.88	195.88
2	Top Soil Dump		
3	External Dump	7.10	7.10
4	Safety Zone		
5	Other Use	24.00	24.00
6	Infrastructure Area	6.50	6.50
7	Green Belt	77.34	77.34
8	Undisturbed Area	29.68	29.68
	Total	340.50	340.50
1.5.27	Reason for revision	Due to enhancement in coal production	Amendment / Modification in EC


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1.6 Component wise break up of forest Land

Component	Forest Land (in ha.)	Non Forest Land (in ha.)	Total (in Ha)
Quarry	15.92	248.69	264.61
Overburden(OB)	0	21.11	21.11
Infrastructure	0	16.43	16.43
Existing Road-1.88Ha, Proposed Road-1.02 Ha	0	2.9	2.9
Embankment	0	2.91	2.91
Water Body	0	1.38	1.38
Green belt	0	22.79	22.79
Safety Zone(Proposed Forest)	0.57	0	.57
Safety Zone (REleased forest-1.74 Ha & Non forest-6	0	7.8	7.8
Total	16.49	324.01	340.50


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Chapter 2 : Exploration, Geology, Seam Sequence, Coal Quality and Reserve

	Parameters	Details												
2.1	DETAILS OF THE BLOCK													
2.1.1	Particulars of adjacent blocks: North, South, East, West	<p>The present report is confined to the assessment of the part area (northern part) of original block of Mukunda OCP (GR, 1981), it includes Kuya Colliery and part area of Ghanoodih Colliery.</p> <p>Jharia coalfield is located in Dhanbad and Bokaro districts of Jharkhand. After nationalization and formation of Bharat Coking Coal Ltd. (BCCL), a feasibility report for reconstruction and development of the collieries (FR '78) of this coalfield was prepared in collaboration with the Polish consultants, wherein amalgamation of the erstwhile collieries including virgin area was envisaged. In this FR, 9 large opencast blocks and 21 large underground blocks were envisaged. However, this could not be implemented in full due to various constraints. The opencast block VIII (herein after called OCP-VIII) is one of these part of originally envisaged OCP-VIII.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>North</td><td>:</td><td>Dobari Colliery</td></tr> <tr> <td>South</td><td>:</td><td>North Tisra</td></tr> <tr> <td>East</td><td>:</td><td>Barren Land</td></tr> <tr> <td>West</td><td>:</td><td>Ghanoodih Colliery</td></tr> </table>	North	:	Dobari Colliery	South	:	North Tisra	East	:	Barren Land	West	:	Ghanoodih Colliery
North	:	Dobari Colliery												
South	:	North Tisra												
East	:	Barren Land												
West	:	Ghanoodih Colliery												
2.1.2	Location of the Block District/State	<p>The area under consideration is located in Northern part of Mukunda exploration block of Jharia coalfield and constitutes of leasehold boundary of Kuya Colliery, BCCL. The project area lies between Latitude 23°43'30" to 23°43'44" (N) and Longitude 86°25'30" to 86°27'00" (E).</p>												
2.1.3	Area of the Block "Ha"	<p>The project area of the proposed quarry under consideration has a total surface area of about 340.50 Ha as per colliery record.</p>												

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2.1.4	Area of the geological block projectised "in Ha" (Area of the geological block considered for liquidation of coal reserve)	As per the surface extent of proposed quarry, area of the colliery proposed to be projectized is about 182.88 Ha.
2.1.5	Balance area yet to be projectised "Ha"	Seams below III bottom/III seam are yet to be projectised and balance area of the leasehold area outside the projectized area is mainly non-coal bearing
2.1.6	Likely Reserve in the area yet to be projectised "Mte"	Available resource within unprojectised seams to be projectized is 19.97 million tons. This resource is blocked in lower seams.
2.1.7	Geo-Reference Co-ordinates of the Block Boundary	Given in attachment
2.1.8	Certificate of authorized person/agency if the project area is confined within the vested/allotted block boundary and Where the project area extends beyond the block boundary, a certificate of authorized person/agency should be supported with a certificate of State Government mines and Geology department must be attached, which should specify (a) intent of the state government for grant of lease beyond	Given in attachment

Modified Mining Plan and Mine Closure Plan for Kuva Colliery

	<p>the vested geological boundary; (b) non-existence of Coal/Lignite in the area beyond the vested/allotted geological block boundary to rule out the issue of encroachment and use of coal bearing area (beyond the vested/allotted block boundary) in the mining plan.</p> <p>The Project area, Lease area and geological block area in "Ha" shall also be envisaged.</p>	
2.1.9	KML file of the Proposed lease and geological block.	Given in attachment
2.1.10	Whether the proposed project area is confined within the allotted block boundary, if not, the reason for deviation from allotted block boundary, may be given.	Yes
2.1.11	If the project area extends outside the allotted block boundary, confirmation about non-occurrence of coal/lignite in the area under	Not applicable

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	reference needs to be furnished	
2.1.12	Type of the Project (Operating/under Implementation) and year of Starting.	Running Opencast mine starting from pre-nationalisation

2.2 EXPLORATION, GEOLOGY AND ASSESSMENT OF RESERVE

	Parameters	Details
2.2.1	Regional geological set up of the area, local geology, structure, stratigraphic sequence, characteristics of the litho-logical units (coal seams / partings/overburden).	<p>The Jharia coalfield (453 Km²) is sickle shaped on plan and occurs in the form of syncline with its axis trending broadly in E-W direction and plunging towards west. The southern flank of this coalfield is truncated by boundary fault having maximum throw about 2.5 Km at Mohuda Basin. The non-coal bearing Talchir formation is mainly exposed along the northern and western portion of the coalfield. The Barakar formation covering an area of 218 Km² which is exposed in the northern, eastern and south-eastern part of the coalfield area contains over 40 coal horizons including local and persistent seams, some of which are exclusively store house of metallurgical coal in India. The Barakar formation is successively overlain by Barren Measure formation which is devoid of workable coal seams. This is mainly exposed in the central part of the coalfield. The Barren Measure is overlain by the coal bearing Raniganj formation (54 Km²). These are exposed within a sub elliptical basin the south-western part of the coalfield.</p> <p>Stratigraphy</p> <p>The Regional stratigraphic succession of Jharia coalfield is given in table no. 2.1</p> <p>Archeans: The Archeans, consisting of gneisses and mica schists are exposed all along the periphery of Jharia Coalfield. The metamorphics are profusely intruded by quartz veins.</p> <p>Talchir: In an Archean basement, the lower Gondwana</p>

sediments are deposited with a pronounced unconformity. The lowermost Gondwana sediments of Talchir formation are represented by variegated shale and greenish sandstones which at times show laths of unaltered feldspars. They are exposed all along the northern fringe of the coalfield. Near Lutipahar in the north-western part of the coalfield, Talchir formation is comparatively well developed in a large area and boulder bed shows exposures of spheroidal weathering.

Barakar: In the eastern, northern and north-eastern parts of the block, the Barakar are extensively developed. All along the southern boundary they are extending under the thick over of Barren Measures. The Barakar formation comprises pebbly sandstones, conglomerate, grit, coarse to fine grained sandstones, shales, carbonaceous shales and coal seams. Verma *et al.* (1989) have observed a gradual decrease in thickness of Barakar from east to west. Its maximum thickness of more than 1250 m has been observed in the south-eastern part of the coalfield in Tasra region. Barakar is the most important geological formation as it contains more than 40 coal horizons having thickness more than 50 cm. In general seam X (Ten) and younger seams are better quality coal.

Barren Measure: The Barren Measure formation lying conformably over the Barakar formation consists of massive multistoried sandstone alternating with carbonaceous shale, grey shale and sandstone/ shale intercalations with occasionally very thin, impersistent and non-workable coal horizons in the lower part of the formation. The Barren Measures show a widespread development extending from the central part of the coalfield up to the southern margin. The maximum thickness of the Barren Measure has been estimated to be around 625m in the central part of the basin. It gradually decreases westward and eastward.

Raniganj: Raniganj formation is deposited in sub

elliptical basin that is called Mohuda basin the south-western part of the coalfield. The formation is represented by sandstone, shale, carbonaceous shale and coal seams. There are 24 coal seams reported from this formation. These seams comprise high volatile, high moisture, medium coking coal. The maximum thickness around 725m of Raniganj formation has been observed.

Igneous Intrusive: Mica peridotite and dolerite are the two most common Post Gondwana intrusives. The mica peridotite occurs as dyke and sill throughout the entire coalfield and has caused widespread devolatilization of the coal seams. The dolerite dykes are mostly confined in the western part of the coalfield and has limited effect on coal seams. The mica peridotite sills have devolatilized the extensive reserve of good quality coal in the coalfield.

As mentioned earlier most of the area is covered by sandy soil and alluvium. The thickness of soil varies from 1.0 m to 9.0 meter.

Geological Succession of Jharia coalfield

Stratigraphic Division	Age	Formation	Lithological characters
	Recent	Alluvium/Soil/Sand	
	Cretaceous to Jurassic	Mica Peridotite/Dolerite Dyke	
----- Unconformity -----			
Lower Gondwana	Upper Permian	Raniganj Formation	Mainly fine to medium grained grey current
	Middle Permian	Barren Measures	Black carbonaceous micaceous

				shale with clay, ironstone and sandstone.
		Lower Permian	Barakar Formation	Coarse grained to conglomeratic white
		Lower Permian	Talchir Formation	Coarse grained sandstone, white or slightly variegated at Top, green shale with undecomposed feldspar, boulder bed etc.
		Unconformity		
		Archeans		Granites, gneisses and schists.
2.2.2	Local geology, Structure, Stratigraphic sequence, Characteristics of the litho-logical units (coal seams / partings/overburden).	The area under consideration is located in the eastern flank of the Jharia coalfield, and it is primarily covered by the Barakar formation which is overlain by thin layers of sandy soil and clay. The thickness of soil is ranges between 1 m. (NGK-26) to 15.51 m. (NGK-25). The eastern limit of the coal bearing formation is delineated by metamorphic rock of Archean age. The rocks of Barakar formation consist of pebbly sandstone, grits, fine to coarse grained		

sandstone, intercalation of sandstone and shale, sandy shale, grey shale, carbonaceous shale, fire clays and number of coal seams. Coal seams IV TOP to III BOT occur within the project area and under the purview of this Geological Report (Plate No. G-III).

Good rock exposures are rather few excepts in old quarries and it has not been possible to precisely delineate the incrop position of the seams because of the extensive goaf, and quarrying which have severely affected the original topography. The incrop position of the coal seams have been extrapolated on the basis of geological data viz. geological cross section, floor contour and quarry/incline positions and are interpretative. Geology and correlation of the seams have been established mainly on the basis of sub-surface data obtained from borehole and mine workings.

Igneous Intrusion:

The project area is free from any igneous intrusion.

Sequence of Coal Seams (within the proposed quarry Limit)

Seam/Parting	Average Seam/Parting Thickness (meter)	Depth Range (approx.) (m)
IV TOP	1.93	INCROP-100
P(IV TOP-IV BOT)	17	
IV BOT	4.37	INCROP-120
P(IV BOT-III TOP)	13	

P(IV BOT-III)	23	
III TOP	3.78	INCROP-140
P (III TOP-III BOT)	9	
III BOT	9.8	INCROP-160
III	15.70	INCROP-100
P (III-II TOP)	6	
II TOP	0.95	INCROP-140
P(II TOP-II BOT)	20	
P(III BOT-II BOT)	30	
II BOT	1.40	INCROP-190
P (II BOT-I)	13	
I	4.90	INCROP-210

Geological Structure of the Block

Strike & Dip

The geological structure of the area is relatively simple. The general strike of the strata is normally NNW-SSE swinging to N-S covering the major part of the area. The beds dip 4° to 12° due WSW, west and north respectively. The relevant details of strike and dip can be seen from the geological cross section and floor contour plans.

Faults

No major fault encountered within the project area.

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2.2.3	Geological Block Area "Ha"	Kuya Colliery falls completely within Mukunda Block of Jharia Coalfield. Total area of Mukunda geological block is about 2200 Ha. As per colliery records total surface area of Kuya colliery is about 340.50 Ha.										
2.2.4	Status of Exploration of the block	The entire area under consideration has been covered by detailed exploration and data is available in the "Geological Report on exploration for coal in Mukunda Open Cast Block, Jharia coalfield, Dhanbad (July, 1981)", prepared by CMPDI, Regional Institute-II, Dhanbad.										
2.2.5	Area covered by 'detailed' exploration within the block (sq. km)	<p>The entire area under consideration has been covered by detailed exploration.</p> <p>A total of 14 boreholes have been drilled within the project area involving a total meterage of 1818.78 meters within the project area.</p> <p style="text-align: center;">Status of Exploration</p> <table><tr><th>Serial</th><th>Seri</th><th>Drilling</th><th>No. of</th><th>Meterage</th></tr><tr><td>1</td><td>NG</td><td>CMPDI</td><td>14</td><td>1818.78</td></tr></table> <p>The density of boreholes comes to 4 BHs/Km² within the project area (within Kuya Colliery Boundary)</p>	Serial	Seri	Drilling	No. of	Meterage	1	NG	CMPDI	14	1818.78
Serial	Seri	Drilling	No. of	Meterage								
1	NG	CMPDI	14	1818.78								
2.2.6	Whether entire lease area has been covered by 'detailed' exploration.	Yes.										
2.2.7	No. of boreholes drilled within the leasehold boundary	14										
2.2.8	Whether any further exploration/study is required or suggested and time frame in which it is to be completed.	No.										

Modified Mining Plan and Mine Closure Plan for Kuya Colliery

2.2.9	Year wise future programme of exploration	Not applicable.																
2.2.10	Overall borehole density within the block (no./sq.km) approx.	Within the colliery leasehold, the borehole density is approximately 4 BHs/Km ² .																
	No. of Seams available as per GR (Geological Report)	<p>The lay and deposition of coal seams is based primarily on the data available in "Geological Report on exploration for coal in Mukunda Open Cast Block, Jharia coalfield, Dhanbad (July, 1981)", prepared by CMPDI, Regional Institute-II, Dhanbad) and updated mine data provided by colliery authorities.</p> <p>Standard geological name of available coal seams and corresponding colliery nomenclature is given below.</p> <p>Nomenclature of coal seams Vis-À-Vis Colliery Nomenclature</p> <table><tr><th>Standard Nomenclature (Geological)</th><th>Colliery Nomenclature (Kuya Colliery)</th></tr><tr><td>IV TOP</td><td>IV</td></tr><tr><td>IV BOT</td><td>IV</td></tr><tr><td>III TOP</td><td>III</td></tr><tr><td>III BOT</td><td>II</td></tr><tr><td>II TOP</td><td>-</td></tr><tr><td>II BOT</td><td>I</td></tr><tr><td>I</td><td>0</td></tr></table> <p>Seam-wise Description</p> <p>Seam IV TOP</p> <p>This seam occurs below V/VI/VII/VIII seam with a parting varies from 30.93 m (NGK-15) to 32.66m (NGK-25).The full coal thickness has been intersected into 8 boreholes within the project</p>	Standard Nomenclature (Geological)	Colliery Nomenclature (Kuya Colliery)	IV TOP	IV	IV BOT	IV	III TOP	III	III BOT	II	II TOP	-	II BOT	I	I	0
Standard Nomenclature (Geological)	Colliery Nomenclature (Kuya Colliery)																	
IV TOP	IV																	
IV BOT	IV																	
III TOP	III																	
III BOT	II																	
II TOP	-																	
II BOT	I																	
I	0																	

limit. The In-band thickness of seam varies from 0.65 m (NGK-25) to 5.30 m (NGK-2). The seam has been considered as Non coking coal within the project area. Detailed quality parameters and net geological resource is given below in table.

Quality Parameters

Proximate Analysis (On air-dried basis)

TH	ASH	UHV	Grade	GCV	GCV Grade
0.65-5.30	29.1-45.2	1158-4400	D-G	3762-5163	G8-G12

Roof & Floor

Roof and floor both generally composed of carbonaceous shale.

Exploitation

The seam is extensively worked and quarried. In the incrop region the seam is extensively quarried out in the southern part (south eastern part of the Tisra Jore) and another quarry in the northern part is ongoing. A very small patch is quarried out in the northernmost part too.

The west-central part is heavily worked by underground development.

(Ref: GR, Mukunda OC Block, July, 1981).

Seam IV BOT

This seam occurs below IV TOP seam with a parting varies from 10.65 m (NGK-18) to 20.11m

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(NGK-2).The full coal thickness has been intersected into 10 boreholes within the project limit. The In-band thickness of seam varies from 2.50 m (NGK-15) to 5.43 m (NGK-24). The seam has been considered as Non coking coal within the project area. Detailed quality parameters and net geological resource is given below in table.

Quality Parameters

Proximate Analysis (On air-dried basis)

TH	ASH	UHV	Grade	GCV	GCV Grade
2.50-5.43	36.7-46.8	2244-3770	E-G	4297-5151	G8-G11

Roof & Floor

Roof and floor both generally composed of carbonaceous shale.

Exploitation

The seam is extensively worked and quarried. In the incrop region the seam is extensively quarried out in the southern part (south eastern part of the Tisra Jore) and another quarry in the northern part is ongoing.

(Ref: GR, Mukunda OC Block, July, 1981).

Seam III TOP

This seam occurs below IV BOT seam with a parting varies from 10.92 m (NGK-21) to 17.35m (NGK-18).The full coal thickness has been intersected into 10 boreholes within the project limit. The In-band thickness of seam varies from

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2.45 m (NGK-25) to 5.39 m (NGK-2). The seam has been considered as Non coking coal within the project area. Detailed quality parameters and net geological resource is given below in table.

Quality Parameters

Proximate Analysis (On air-dried basis)

TH	ASH	UHV	Grade	GCV	GCV Grade
2.45-5.39	27.01-46.3	1931-4697	D-G	4174-6067	G6-G11

Roof & Floor

Roof and floor both generally composed of carbonaceous shale.

Exploitation

The seam is extensively worked and quarried. In the incrop region the seam is extensively quarried out in the southern part (south eastern part of the Tisra Jore) and another quarry in the northern part is ongoing.

The west-central part is heavily worked by underground development and in the northernmost part two small underground patch is also developed.

(Ref: GR, Mukunda OC Block, July, 1981).

Seam III BOT

This seam occurs below III TOP seam with a parting varies from 1.83 m (NGK-2) to 15m (NGK-30).The full coal thickness has been intersected into 10 boreholes within the project

limit. The In-band thickness of seam varies from 6.19 m (NGK-14) to 13.41 m (NGK-2). The seam has been considered as Non coking coal within the project area. Detailed quality parameters and net geological resource is given below in table.

Quality Parameters

Proximate Analysis (On air-dried basis)

TH	ASH	UHV	Grade	GCV	GCV Grade
6.19-13.41	33.38-44.9	2280-3970	E-G	4362-5399	G7-G10

Roof & Floor

Roof and floor both generally composed of carbonaceous shale.

Exploitation

The seam is extensively worked and quarried. In the incrop region the seam is extensively quarried out in the southern part (south eastern part of the Tisra Jore) and another quarry in the northern part is ongoing.

The west-central part is heavily worked by underground development and a small underground patch is developed in south central part too.

(Ref: GR, Mukunda OC Block, July, 1981).

Seam III

III TOP and III BOT seam combined in the southernmost part of the project area as III seam.

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This seam occurs below IV BOT seam with a parting varies from 20m (NGK-22) to 28m (NGK-24). The full coal thickness has been intersected into 4 boreholes within the project limit. The In-band thickness of seam varies from 14.38m (NGK-22) to 17.36m (NGK-13). The seam has been considered as Non coking coal within the project area. Detailed quality parameters and net geological resource is given below in table.

Quality Parameters

Proximate Analysis (On air-dried basis)

TH	ASH	UHV	Grade	GCV	GCV Grade
14.38-17.36	38.7-42.6	2760-3449	E-F	4495-4890	G9-G10

Roof & Floor

Roof and floor both generally composed of carbonaceous shale.

Exploitation

The seam is part quarried and also developed by underground working.

(Ref: GR, Mukunda OC Block, July, 1981).

Insitu Coal Quality

The quality of coal seams in this Revised Geological Report is based on "Geological Report, Mukunda Open Cast " Jharia coalfield,

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	IV TOP	1.93	INCROP-100	1.063	0.62
	P(IV TOP-IV BOT)	17			
	IV BOT	4.37	INCROP-120	4.002	2.92
	P(IV BOT-III TOP)	13			
	P(IV BOT-III)	23			
	III TOP	3.78	INCROP-140	4.264	3.26
	P (III TOP-III BOT)	9			
	III BOT	9.8	INCROP-160	18.049	11.93
	III	15.70	INCROP-100		
	P (III-II TOP)	6			
	II TOP	0.95	INCROP-140	1.29	1.29
	P(II TOP-II BOT)	20			
	P(III BOT-II BOT)	30			
	II BOT	1.40	INCROP-190	5.20	5.20
	P (II BOT-I)	13			
	I	4.90	INCROP-210	13.48	13.48
	Total			47.348	38.700
2.2.15	Reserve Estimation Criteria				
	Methodology of reserves estimation (also mention if any software package has been used).	<p>A) The seam wise status of developed, depillared and goaved areas in addition to virgin patches has been identified on the basis of seam working plan provided by the concerned area/colliery officials. These have been clearly marked on the seam folio plans and floor contour plans of all the seams proposed for quarrying in the area.</p> <p>B) Goaf & Quarries: These areas have been considered as devoid of coal, however in case of goaf the devoid zone is considered according to the height of the goaf.</p>			

C) Developed Areas: In developed areas, where reserves are standing on pillars, seam wise dimension of extraction (height & width) have been decided on the basis of seam working plan made available by area/collieries authorities and after detailed discussion with them. And only after that percentage of extraction factor for each seam has been arrived which ranges from 25 % to 30 %. For standing on pillars an average of 30% extraction of coal have been considered and accordingly Net Geological Reserve has been calculated.

D) Thickness: - Only the In-band (I100) thickness of the seam has been considered for reserve estimation.

Areas having thickness less than 0.5 m have not been considered for reserve estimation.

Methodology of Reserves Calculation

The reserve has been estimated through "MINEX" software.

1. The reserve has been calculated using "Detailed resource reporting" menu of **MINEX 6.1.3** software along with separate template for each individual seam.
2. A deduction of 10% from the 'gross reserves' of coal has been made to account for unidentified geological uncertainties like structural disturbances, washout zones etc. to arrive at the 'net geological reserves.'
3. The seam wise status of developed, depillared areas in addition to virgin patches has been identified on the basis of seam working plan supplied by the concerned area/colliery officials. These have been clearly marked on the seam folio plans and floor contour plans of all the seams.
4. Heave Zone: The areas falling within the heave zone of a fault has been excluded for the purpose of reserve estimation.

		5. Reserve is calculated within the proposed project boundary demarcated by the mining department																												
2.2.16	GCV DETAILS	<div>Seam wise quality/GCV parameters of available coal resource within delineated quarry of Kuya colliery are given in below.</div> <table><tr><th rowspan="2">Seam</th><th colspan="4">AS PER GEOLOGICAL REPORT</th><th rowspan="2">AS PER BCCL DECLARE D GRADE NOTIFICAT ION 2022- 23</th></tr><tr><th>Thick ness (m)</th><th>Ash% (Cokin g)</th><th>GCV (Kcal/ Kg)</th><th>Grade Range</th></tr><tr><td>IV Top</td><td>0.65- 5.30</td><td>29.1- 45.2</td><td>3762- 5163</td><td>G8- G12</td><td>W-VI</td></tr><tr><td>IV Bot.</td><td>2.50- 5.43</td><td>36.7- 46.8</td><td>4297- 5151</td><td>G8- G11</td><td>W-V</td></tr><tr><td>III Top</td><td>2.45- 5.39</td><td>27.01- 46.3</td><td>4174- 6067</td><td>G6- G11</td><td>W-V</td></tr></table>	Seam	AS PER GEOLOGICAL REPORT				AS PER BCCL DECLARE D GRADE NOTIFICAT ION 2022- 23	Thick ness (m)	Ash% (Cokin g)	GCV (Kcal/ Kg)	Grade Range	IV Top	0.65- 5.30	29.1- 45.2	3762- 5163	G8- G12	W-VI	IV Bot.	2.50- 5.43	36.7- 46.8	4297- 5151	G8- G11	W-V	III Top	2.45- 5.39	27.01- 46.3	4174- 6067	G6- G11	W-V
Seam	AS PER GEOLOGICAL REPORT				AS PER BCCL DECLARE D GRADE NOTIFICAT ION 2022- 23																									
	Thick ness (m)	Ash% (Cokin g)	GCV (Kcal/ Kg)	Grade Range																										
IV Top	0.65- 5.30	29.1- 45.2	3762- 5163	G8- G12	W-VI																									
IV Bot.	2.50- 5.43	36.7- 46.8	4297- 5151	G8- G11	W-V																									
III Top	2.45- 5.39	27.01- 46.3	4174- 6067	G6- G11	W-V																									

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		III Bot	6.19-13.41	33.38-44.9	4362-5399	G7-G10	W-V
2.2.17	Gross Geological Reserve of the block "Mte"	52.61					
2.2.18	Net Geological Reserve of the block "Mte"	47.348					
2.2.18 A	Net Geological Reserve within delineated quarry "Mte"	8.648					
2.2.19	Mineable Reserve of the block "Mte"	Seams			Mineable Reserve (MT) within delineated quarry		Grade
		IV Top			1.367	G8-G12	
		IV Bottom				G8-G11	
		III Top			0.903	G6-G11	
		III Bottom & Combined			5.513	G7-G10	
		Total			7.783		
2.2.20	Blocked Reserve "Mte"	38.700					
2.2.21	Corresponding extractable reserve of the block "Mte"	For opencast mining extractable reserve is considered same as mineable reserve i.e. 7.783 Mte.					
2.2.22	Percentage of Extraction	For opencast mining percent of extraction is considered 90 percent.					

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2.2.23	Reserve already depleted (Base date of Mining Plan)	Not applicable. Note- Mining activities are going on in Kuya colliery since pre-nationalization period. At present, opencast mining is under progress in the colliery. Resource in the present work is estimated after deducting already depleted reserves. Base date of the reserve has been considered as 01.04.2022
2.2.24	Balance Reserve (as on Base Date)	Since, depleted resource is already accounted for in resource estimation, Balance reserve in Kuya colliery as on base date (01.04.2022) is considered same as mineable reserve i.e. 7.783 Mte.


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Chapter 3: Mining

	Parameters	Details																		
3.1	MINING METHOD																			
3.1.1	Existing method of mining if the mine is under operation	<p>Presently Opencast Mining Operation with Shovel-Dumper combination is going on in Kuya Colliery. The production of coal for last 5 years are given below.</p> <table><tr><th>Year</th><th>Coal Production (M.Tes)</th><th></th></tr><tr><td>2017-18</td><td>1.487</td><td></td></tr><tr><td>2018-19</td><td>1.569</td><td></td></tr><tr><td>2019-20</td><td>1.641</td><td></td></tr><tr><td>2020-21</td><td>1.799</td><td></td></tr><tr><td>2021-22</td><td>2.591</td><td></td></tr></table>	Year	Coal Production (M.Tes)		2017-18	1.487		2018-19	1.569		2019-20	1.641		2020-21	1.799		2021-22	2.591	
Year	Coal Production (M.Tes)																			
2017-18	1.487																			
2018-19	1.569																			
2019-20	1.641																			
2020-21	1.799																			
2021-22	2.591																			
3.1.2	Proposed method of mining with justification on suitability of method of mining	<p>Seams to be worked on:</p> <p>Presently opencast mining operation is going on to extract coal from IV Top, IV Bot, III Top & III Bot seams and it is also proposed to extract IV Top, IV Bot, III Top & III Bot seams through opencast operation.</p> <p>Choice of Mining Method:</p> <p>Considering the dip of beds and mining of multiple seams separated by multi partings, presently the opencast is being operated with Shovel-Dumper System of mining and same has been proposed in this mining plan.</p> <p>Justification for Optimization of targeted capacity:</p> <p>As per the mining parameters of the mine, the peak production of the mine is 2.80 MTY. The peak production from the mine can be achieved by better utilization of resources and favorable geo-mining conditions.</p> <p>Sequence of mining:</p>																		

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The mining shall be carried out in descending order.

Production Scheduling:

The calendar programme of mining operation has been formulated based on the adopted sequence of mine development and optimum condition of mining operation for the entire life of opencast project.

Year	Coal Production (M.Tes)	O.B. Removal (M.Cum)
Proposed		
2022-23	2.80	21.45
2023-24	2.70	20.68
2024-25	1.50	11.49
2025-26	0.783	5.99
TOTAL	7.783	59.61

SEAMWISE MINEABLE RESERVES

Seams	Mineable Reserve (MT) within delineated quarry
IV Top	1.367
IV Bottom	
III Top	0.903
III Bottom & Combined	5.513
Total	7.783

Parting Wise OB to be removed within delineated Quarry

Partings	Volume M.Cum
Rehandling of loose OB (in terms of solid)	10.753
Top OB	30.821
Parting between IV TOP & IV Bottom	5.802
Parting between III Top & IV Bottom	7.429
Parting between III Top & III bottom	4.805
Total	59.61

Basic Dimensions of the Quarry

S. N O	Description	Unit	Value
1.	Area of Excavation	Ha	182.88
2.	Avg. Strike Length	M	1900
3.	Avg. Dip Rise Width	M	900
4.	Maximum depth	m	140
5.	Base of Quarry		III Bottom

Equipment configuration

Presently the mine operation is done by both departmental and outsourcing means. The details of major machinery deployed in departmental patch and Hired HEMM patch is given below:

Existing HEMM in Departmental HEMM

SL No.	Equipment	Capacity	Number
1	Shovels	EKG 5 Cum	2
		Hydraulic 2.9 Cum (01 Nos.)	5

		Hydraulic 4.5 Cum (03 Nos.)																													
		Hydraulic 5 Cum (01 Nos.)																													
2	Dumpers	60 Te	28																												
3	Drills	160 mm dia	6																												
4	Dozer	355 HP	6																												
5	Water Sprinkler	28 KL	2																												
<p align="center"><u>Existing HEMM in Hired HEMM Patch</u></p> <table border="1"> <thead> <tr> <th>SL No.</th><th>Equipment</th><th>Capacity</th><th>Number</th></tr> </thead> <tbody> <tr> <td>1</td><td>Shovels</td><td>3.6 Cum</td><td>12</td></tr> <tr> <td>2</td><td>Dumpers</td><td>31 Te</td><td>80</td></tr> <tr> <td>3</td><td>Drills</td><td>150 mm dia</td><td>6</td></tr> <tr> <td>4</td><td>Dozer</td><td>300 HP</td><td>10</td></tr> <tr> <td>5</td><td>Water Sprinkler</td><td>12 KL</td><td>4</td></tr> <tr> <td>6</td><td>Grader</td><td>140 HP</td><td>3</td></tr> </tbody> </table> <p><u>Drilling & Blasting</u></p> <p>O.B. will be excavated in benches after proper drilling & blasting. Drilling in OB benches will be done by 250mm/160mm drills. The blasted OB will be dozed, heaped and loaded on to dumpers for transportation to OB dumps.</p> <p>Drilling in coal benches will be done by 100 mm/ 160mm drills and after proper drilling & blasting, the blasted coal will be loaded by Shovels on to dumpers for transportation up to the surface stock yard.</p> <p>The standard practice involving the electric detonators for the initiation of detonating cord, detonating relays</p>				SL No.	Equipment	Capacity	Number	1	Shovels	3.6 Cum	12	2	Dumpers	31 Te	80	3	Drills	150 mm dia	6	4	Dozer	300 HP	10	5	Water Sprinkler	12 KL	4	6	Grader	140 HP	3
SL No.	Equipment	Capacity	Number																												
1	Shovels	3.6 Cum	12																												
2	Dumpers	31 Te	80																												
3	Drills	150 mm dia	6																												
4	Dozer	300 HP	10																												
5	Water Sprinkler	12 KL	4																												
6	Grader	140 HP	3																												

	<p>to achieve hole-to-hole delays, use of Heavy ANFO, slurry or emulsion explosives as the column charge will be used for blasting.</p> <p>The pattern of drilling and blasting will be decided during actual operation of the quarry. However, specific consumption of explosives has been envisaged as 0.3 kg/cum for OB and 0.2 kg/cum for Coal.</p> <p><u>Transportation</u></p> <p>The ROM coal from the OC will be transported by the tipping trucks from the pithead stock up to Feeder Breaker. After crushing the coal to (-) 100 mm coal is transported to different sidings.</p> <p><u>Life of Mine</u></p> <p>The balance life of mine for opencast project is 4 years at projected level of production.</p> <p><u>Mining Operation</u></p> <p>Opencast method with Shovel-Dumper System of mining is being used in the mine and same has been proposed in this mining plan. It is assumed that required excavation & transport capacity will be available for opencast mining operation.</p> <p>Since Kuya Colliery is an existing opencast mine working as III bottom seam floor, the mine is already developed through access trench and box cut which is further fully developed into benches along the strike length above III Bottom seam floor. Surface Plan is shown in Plate no. II. The operation of the existing opencast mines will continue. It is suggested that the present operating mines, should work in such a fashion that the benches become straight and uniform, so that equipment deployment of the proposed</p>
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		<p>individual dump benches will be 37°. Width of berm between two adjacent benches will be about 40 m. Dumping will be done by End-Tipping method.</p> <p style="text-align: center;"><u>Yearwise Dump Schedule</u></p> <table><tr><th>Year</th><th>OB Removal (in M.Cum.)</th><th>Internal Dump (in M.Cum.)</th><th>External Dump (in M.Cum.)</th></tr><tr><td>2022-23</td><td>21.45</td><td>9.71</td><td>11.74</td></tr><tr><td>2023-24</td><td>20.68</td><td>9.37</td><td>11.31</td></tr><tr><td>2024-25</td><td>11.49</td><td>5.2</td><td>6.29</td></tr><tr><td>2025-26</td><td>5.99</td><td>2.71</td><td>3.28</td></tr></table>	Year	OB Removal (in M.Cum.)	Internal Dump (in M.Cum.)	External Dump (in M.Cum.)	2022-23	21.45	9.71	11.74	2023-24	20.68	9.37	11.31	2024-25	11.49	5.2	6.29	2025-26	5.99	2.71	3.28
Year	OB Removal (in M.Cum.)	Internal Dump (in M.Cum.)	External Dump (in M.Cum.)																			
2022-23	21.45	9.71	11.74																			
2023-24	20.68	9.37	11.31																			
2024-25	11.49	5.2	6.29																			
2025-26	5.99	2.71	3.28																			
3.1.3	Coal production capacity proposed "Mtpa"	2.80 MTPA																				
3.1.4	Justification for optimization Coal production capacity	<p>Considering the area available for quarry operation, availability of quantity of coal and OB in proposed quarry area, the coal production capacity as proposed in the report is justified.</p> <p>As per the current mining parameters of the mine, peak coal production capacity of the proposed opencast operation of Kuya Colliery has been estimated at 2.80 MTY. This will be achieved upto 202-23.</p>																				
3.1.5	Calendar year from which the production will start	It is running mines and production has already been started from Pre-nationalisation area.																				
3.1.6	Year of Achieving	2022-23																				


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opencast can be facilitated better in the later stage. While working, the existing OB dump over the area bearing coal of IV Top, IV Bot, III Top & III Bot seams within delineated quarry area required to be rehandled.

The broad parameters Kuya Colliery (Opencast) are given here

- Mineable/Extractable Coal : 7.783 M.Tes
- Overburden including Loose OB : 59.61 M. Cum
- Av. Stripping Ratio : 7.659 M³/Te

Floor of III Bottom seam is the base of the quarry.

All the seams considered for exploitation will be mined in separate single bench where ever possible.

OB Dump

Variation in thickness of OB will make it difficult to maintain uniform bench height in OB horizons. However, it is proposed to have a ceiling on OB bench height from safety reasons. The height of the bench generally shall not exceed the boom height of shovel. The height of the bench is proposed as 10 m. Out of total balance 59.61 M.Cum. of OB, 26.99 M.Cum. of OB will be dumped internally in the decoaled area of the quarry-on-quarry floor, 14.64 M.Cum. of OB will be dumped externally in the non-coal bearing area in eastern side within leasehold boundary and the rest around 17.98 M.Cum. will have to be dumped externally in excavated void area of adjoining Dobari Colliery. Since this is an existing mine, backfilling of OB in mined out area has already been started.

For convenience of operation, it is proposed to keep a minimum working width of coal and OB bench as 10 to 20 m. The working benches of OB and coal will be kept at a slope angle of 70° and 80° respectively during operation.

The final pit slope of the quarry has been planned at 43° for the final depth of the quarry (140 m).

Bench height for OB dumps will be 30 m and slope of

	rated production				
3.1.7	Coal production Plan "MT"				
	Year		Coal Production Schedule		
	Year of Operation	Calendar Year	UG	OC	Total
	Y-1	2022-23	0.00	2.80	2.80
	Y-2	2023-24	0.00	2.70	2.70
	Y-3	2024-25	0.00	1.50	1.50
	Y-4	2025-26	0.00	0.783	0.783
Note: Calendar Plan/Production Plan for the entire life of the mine.					
3.1.8	Peak/Rated Capacity		By OC-2.80 Mtpa By UG- Nil Overall- 2.80 Mtpa		
	- By OC				
	- By UG				
	- Overall				
3.1.9	Life of the mine:		By OC-4 years By UG- Nil Overall- 4 years		
	- By OC				
	- By UG				
	- Overall				
3.1.10	Whether the proposed external OB dump site is coal/lignite bearing: If so, whether coal/lignite below waste disposal area is extractable.		Proposed External dump site is Non Coal Bearing Area		
3.1.11	Whether negative proving for coal / lignite in the proposed site for OB dump/infrastructure		Proposed External dump site is Non Coal Bearing Area		

	has been done.																													
3.1.12	Results of any investigation carried out for scientific mining, conservation of minerals and protection of environment; future proposals.	Not Available																												
3.1.13	Type of Equipment/HEMM proposed	Presently the mine operation is done by both departmental and outsourcing means. For future operation same has been proposed. <u>Existing HEMM in Departmental HEMM</u>																												
		<table><tr><th>SL No.</th><th>Equipment</th><th>Capacity</th><th>Number</th></tr><tr><td rowspan="4">1</td><td rowspan="4">Shovels</td><td>EKG 5 Cum</td><td>2</td></tr><tr><td>Hydraulic 2.9 Cum (01 Nos.)</td><td rowspan="3">5</td></tr><tr><td>Hydraulic 4.5 Cum (03 Nos.)</td></tr><tr><td>Hydraulic 5 Cum (01 Nos.)</td></tr><tr><td>2</td><td>Dumpers</td><td>60 Te</td><td>28</td></tr><tr><td>3</td><td>Drills</td><td>160 mm dia</td><td>6</td></tr><tr><td>4</td><td>Dozer</td><td>355 HP</td><td>6</td></tr><tr><td>5</td><td>Water Sprinkler</td><td>28 KL</td><td>2</td></tr></table>	SL No.	Equipment	Capacity	Number	1	Shovels	EKG 5 Cum	2	Hydraulic 2.9 Cum (01 Nos.)	5	Hydraulic 4.5 Cum (03 Nos.)	Hydraulic 5 Cum (01 Nos.)	2	Dumpers	60 Te	28	3	Drills	160 mm dia	6	4	Dozer	355 HP	6	5	Water Sprinkler	28 KL	2
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SL No.	Equipment	Capacity	Number																											

		1	Shovels	3.6 Cum	12
		2	Dumpers	31 Te	80
		3	Drills	150 mm dia	6
		4	Dozer	300 HP	10
		5	Water Sprinkler	12 KL	4
		6	Grader	140 HP	3


 परियोजना पदाधिकारी
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 Kuya Colliery

Chapter 4 : Safety Management

	Parameters	Details
4.1	MINING METHOD	<p>Elaborate safety measures have been laid out as per statute concerning safety in mines. In addition to existing provisions, reference has been made here to some special precautionary measures which have been considered important and require special attention for the safety of men and machinery.</p> <p>Safety of men and machine deployed in the mining area should be properly taken care of irrespective of whether the mining activities are performed by departmental or by outsourcing option.</p> <p>All the provisions and precautionary measures as stipulated in CMR 2017, (especially Reg. 106 to 110) and orders made there under shall be strictly complied with. The important safety aspects have been deliberated subsequently.</p> <p>In addition to those relevant clauses as stipulated in Act & Regulation, all clauses and sub clauses as mentioned in the permission granted by DGMS, Min. of Labour and Employment, GOI for working of Kuya colliery (OC) shall be followed strictly.</p> <p>The other rules / regulation applicable to mining industry shall be comply with like CEA Regulation 2010, Explosive Act etc.</p>
4.1.1	Important safety aspects: Major Risks and uncertainties to the project viz. Proximity to river,	<p>a) Adjacent working The neighboring mines have old underground working.</p> <p>b) Geo-mining disturbances The area under consideration is traversed by very few</p>

	rated production																															
3.1.7	Coal production Plan "MT"																															
	<table><tr><td colspan="2">Year</td><td colspan="3">Coal Production Schedule</td></tr><tr><td>Year of Operation</td><td>Calendar Year</td><td>UG</td><td>OC</td><td>Total</td></tr><tr><td>Y-1</td><td>2022-23</td><td>0.00</td><td>2.80</td><td>2.80</td></tr><tr><td>Y-2</td><td>2023-24</td><td>0.00</td><td>2.70</td><td>2.70</td></tr><tr><td>Y-3</td><td>2024-25</td><td>0.00</td><td>1.50</td><td>1.50</td></tr><tr><td>Y-4</td><td>2025-26</td><td>0.00</td><td>0.783</td><td>0.783</td></tr></table>		Year		Coal Production Schedule			Year of Operation	Calendar Year	UG	OC	Total	Y-1	2022-23	0.00	2.80	2.80	Y-2	2023-24	0.00	2.70	2.70	Y-3	2024-25	0.00	1.50	1.50	Y-4	2025-26	0.00	0.783	0.783
	Year		Coal Production Schedule																													
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Note: Calendar Plan/Production Plan for the entire life of the mine.																																
3.1.8	Peak/Rated Capacity																															
	- By OC	By OC-2.80 Mtpa																														
	- By UG	By UG- Nil																														
	- Overall	Overall- 2.80 Mtpa																														
3.1.9	Life of the mine:	By OC-4 years																														
	- By OC	By UG- Nil																														
	- By UG	Overall- 4 years																														
	- Overall																															
3.1.10	Whether the proposed external OB dump site is coal/lignite bearing: If so, whether coal/lignite below waste disposal area is extractable.	Proposed External dump site is Non Coal Bearing Area																														
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		1	Shovels	3.6 Cum	12
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Chapter 4 : Safety Management

	Parameters	Details
4.1	MINING METHOD	<p>Elaborate safety measures have been laid out as per statute concerning safety in mines. In addition to existing provisions, reference has been made here to some special precautionary measures which have been considered important and require special attention for the safety of men and machinery.</p> <p>Safety of men and machine deployed in the mining area should be properly taken care of irrespective of whether the mining activities are performed by departmental or by outsourcing option.</p> <p>All the provisions and precautionary measures as stipulated in CMR 2017, (especially Reg. 106 to 110) and orders made there under shall be strictly complied with. The important safety aspects have been deliberated subsequently.</p> <p>In addition to those relevant clauses as stipulated in Act & Regulation, all clauses and sub clauses as mentioned in the permission granted by DGMS, Min. of Labour and Employment, GOI for working of Kuya colliery (OC) shall be followed strictly.</p> <p>The other rules / regulation applicable to mining industry shall be comply with like CEA Regulation 2010, Explosive Act etc.</p>
4.1.1	Important safety aspects: Major Risks and uncertainties to the project viz. Proximity to river,	<p>a) Adjacent working The neighboring mines have old underground working.</p> <p>b) Geo-mining disturbances The area under consideration is traversed by very few</p>

<p>adjacent working, faults. geo-mining disturbances, slope stability and remedial measures suggested. It should also include proposed overall slope of the quarry and OB dump, dump height, strata control, fire and spontaneous heating, gas monitoring, disaster management, danger from inrush of water etc.</p>	<p>The seams are free from igneous intrusions in the block.</p> <p>c) Slope stability and remedial measures suggested The slopes of the quarry and dumps have been proposed on the basis of experience in the adjoining areas. However, to ascertain optimum slope angles for stability of quarry batter and OB dumps a scientific study needs to be carried out (Ref. Regulation 106(2) of CMR 2017). Recommendation of this study report should be followed strictly to avert any slope failure in the mine. DGMS (Tech.) circular No. 03 of 2020 dated 16.01.2020 and other circular issued by DGMS from time to time for slope stability should be adhered to in letter and spirit.</p> <p>Monitoring being the most effective mitigation measures against any impending slope failure, a constant vigil in this regard should be maintained during active mine operation.</p> <p>d) Disaster management Mining is a hazardous industry. There is risk to life and property associated with various mining and allied activities of the project. The mining plan has been drawn in conformity with the prevailing statutory provisions as per Mines Act, 1952 & CMR 2017 applicable for safety in mines. A detailed study has been carried out covering identification and assessment of risk, and recommendation of measures to prevent damage to life and property against such risks.</p> <p>Safety Audit is an integrated component of Risk Assessment and Safety Management, which is required</p>
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		<p>f) Existing underground mine fire</p> <p>In addition to statutory provisions, the general measures for fire fighting and its prevention are as follows:</p> <ol style="list-style-type: none"> 1) Organisation of special cell for systematic observations to examine and prevent fire. 2) Removal of spillage of coal on benches and cleaning of coal horizons to prevent cases of coal heating. 3) Storage of lubricants and cotton waste in enclosed fireproof containers in working places. 4) Provision of fire extinguishers <p>The recommendation made in the DGMS (Approval) Circular No. 02, 2013 should strictly be followed in the mine to prevent fire in HEMM. It says that "all types of fire fighting and fire suppression system including automatic fire detection and suppression systems to be used in HEMMs, materials and chemicals to be used in fire fighting or suppression system in mines both on surface and below ground including oil and gas mines/fields shall conform to the following minimum requirement";</p> <ol style="list-style-type: none"> a) All types of fire fighting and fire suppression systems including automatic fire detection and suppression systems to be used in HEMMs, materials and chemicals to be used in fire fighting or suppression systems shall have valid test certificate(s) from any Government or Government approved Laboratory in compliance with relevant Indian Standards. b) All material used in the fire fighting/ fire suppressant
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		<p>systems shall be non-toxic and in no manner harmful to human beings during handling and use.</p> <p>The high pressure storage vessels and hoses, if used with fire-fighting and fire suppressant systems, shall conform to the requirements stipulated in the relevant Indian Standards.</p>
4.1.2	<p>A Commitment from the Company Board that entire mining operation will be carried out as per the Statutory provision given under Mines Act 1952, Coal Mine Regulation 2017 and wherever specific permission will be required the company will approach the concerned authorities.</p>	<p>A Commitment from the Company Board that entire mining operation will be carried out as per the Statutory provision given under Mines Act 1952, Coal Mine Regulation 2017 and wherever specific permission will be required and the company will approach the concerned authorities for the same.</p> <p>The same will be furnished as a part of Annexure during the approval of the Mining Plan.</p>



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Chapter 5 : Infrastructure Facilities


	Parameters	Details
5.1	Mine infrastructure required e.g. Equipment maintenance planning, Office buildings, Workshop, Power supply arrangement, Water supply etc.	<ol style="list-style-type: none"> Magazine: There is no magazine at Kuya colliery. The explosive and detonators for consumption of the mine is brought from Central Magazine located at Bera about 4 KM away from the mine. Licence No. E/HQ/JH/22/294(E43380) Used By:- Bera, Dobari and Kuya Colliery. Workshop: HEMM workshop at Kuya colliery situated in South –West side in mine- boundary. Central Workshop: at Area Level situated at Chandmari. Pumps and motors are repaired here. Regional Store: at Area Level situated at Bera Colliery Water Supply: Drinking water is supplied from MADA. For other miscellaneous domestic work Pit water is supplied. Company's Road: Network of colliery roads exist in the leasehold of the Mine and connected with Dhanbad to Baliapur road near Joyrampur More. Others: Dispensary, Company's Quarters, Office, Hutments, and encroacher <p>Existing arrangement is sufficient to cater proposed mine operation</p>
5.2	Power supply & illumination.	<p>Power Supply Arrangement:</p> <p>Kuya opencast project is receiving power at 33 KV/11KV from Goluckdih Main Sub-Station. The existing transformers at Kuya colliery (OC) are as under: -</p>

		<ol style="list-style-type: none"> Transformer: 11 KV/ 3.3 KV -1000KVA Lighting Transformer: 11 KV/ 440V - 100KVA Lighting Transformer: 11 KV/ 440V - 500KVA Lighting Transformer: 3.3KV/ 220V - 10KVA Lighting Transformer: 11 KV/ 440V - 100KVA Lighting Transformer: 11 KV/ 400V - 500KVA Lighting Transformer (2 Nos): 500 KV/ 220V - 10KVA Lighting Transformer: 500 KV/ 440V - 20KVA Lighting Transformer: 11 KV/ 440V - 250KVA Power Transformer: 11 KV/ 3.3V - 2.5KVA Power Transformer: 11 KV/ 550V - 750KVA Lighting Transformer: 500 KV/ 440V - 100KVA Lighting Transformer: 500 KV/ 440V - 250KVA Lighting Transformer: 500 KV/ 440V - 250KVA <p>Existing arrangement is sufficient to cater proposed mine-operation.</p>
5.3	Coal Handling Arrangement: Brief detail of the CHP/Mode of Dispatch, Coal handling arrangement	<ul style="list-style-type: none"> Coal production of the mine is linked to different power houses (Power plants of DVC and other companies) and washeries (Bhojudih washery & Dugda washery) through CK (West), BNR siding and Burragarh siding and rest quantity is transported through road to

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		<p>MPL, RTPS and E- Auction etc. The present lead for coal transportation from face to surface is 1 to 2 Km. C. K. West Siding is 3 to 4 KM and BNR Siding is about 10 KM from the coal dump.</p> <ul style="list-style-type: none">• Feeder breaker exists in KOCP and 3 Nos. of feeder breaker in C. K. West Siding. The coal has been crushed in Feeder Breaker. The crushed coal is stored in hopper. The standing tipping trucks below the hopper receive the crushed coal and spread it on the wharf. The contractual pay loader loads the coal into the railway wagons for further transport.																																																																											
5.4	Coal washing and the proposed handling/disposal of rejects.	Coal washing facilities are not existing in Kuya colliery.																																																																											
5.5	Existing Pumping Details	<table><tr><th colspan="5">0 - seam</th></tr><tr><th>Sl. no</th><th>Capa city (GPM)</th><th>Pipe dia (Inch)</th><th>Head (m)</th><th>Remarks</th></tr><tr><td>1</td><td>600</td><td>6</td><td>120</td><td>Running</td></tr><tr><td>2</td><td>600</td><td>6</td><td>120</td><td>Running</td></tr><tr><td>3</td><td>600</td><td>6</td><td>100</td><td>Pipe line available</td></tr><tr><th colspan="5">NC-Patch</th></tr><tr><th>Sl. no</th><th>Capa city (GPM)</th><th>Pipe dia (Inch)</th><th>Head (m)</th><th>Remarks</th></tr><tr><td>1</td><td>800</td><td>6</td><td>100</td><td>Diesel Pump</td></tr><tr><td>2</td><td>800</td><td>6</td><td>100</td><td>Diesel Pump</td></tr><tr><td>3</td><td>800</td><td>6</td><td>100</td><td>Diesel Pump</td></tr><tr><td>4</td><td>800</td><td>6</td><td>100</td><td>Diesel Pump</td></tr><tr><td>5</td><td>2000</td><td>8</td><td></td><td>Pipe line Available</td></tr><tr><td>6</td><td>2000</td><td>8</td><td></td><td>Pipe line Available</td></tr><tr><td>7</td><td>4000</td><td>10</td><td></td><td>Pipe line Available</td></tr><tr><td>8</td><td>4000</td><td>10</td><td></td><td>Pipe line Available</td></tr></table>	0 - seam					Sl. no	Capa city (GPM)	Pipe dia (Inch)	Head (m)	Remarks	1	600	6	120	Running	2	600	6	120	Running	3	600	6	100	Pipe line available	NC-Patch					Sl. no	Capa city (GPM)	Pipe dia (Inch)	Head (m)	Remarks	1	800	6	100	Diesel Pump	2	800	6	100	Diesel Pump	3	800	6	100	Diesel Pump	4	800	6	100	Diesel Pump	5	2000	8		Pipe line Available	6	2000	8		Pipe line Available	7	4000	10		Pipe line Available	8	4000	10		Pipe line Available
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Chapter 6 : Land Requirement

	Parameters	Details												
6.1	LAND REQUIREMENT													
6.1.1	Total Land requirement for the mine in "Ha"	<p>The breakup of ownership wise land within leasehold boundary of Kuya Colliery as furnished by Colliery Authority is given below:</p> <table><tr><th>PARTICULARS</th><th>AREA (in Hectare)</th></tr><tr><td>BCCL Land</td><td>141.33</td></tr><tr><td>Forest Land</td><td>117.51#</td></tr><tr><td>Govt. Land</td><td>35.06</td></tr><tr><td>Tenancy Land</td><td>46.60</td></tr><tr><td>Total Land</td><td>340.50</td></tr></table> <p># Out of the above forest land, forest Clearance in respect of remaining 16.49 Ha is under process. The land other than BCCL holding has to be transferred to BCCL / to be acquired by BCCL.</p> <div> परियोजना पदाधिकारी Project Officer कुईया कोलियरी Kuya Colliery</div>	PARTICULARS	AREA (in Hectare)	BCCL Land	141.33	Forest Land	117.51#	Govt. Land	35.06	Tenancy Land	46.60	Total Land	340.50
PARTICULARS	AREA (in Hectare)													
BCCL Land	141.33													
Forest Land	117.51#													
Govt. Land	35.06													
Tenancy Land	46.60													
Total Land	340.50													
6.1.2	During mining Land use details:													

Unit: Ha		
Type	Existing Land use (Plan & data as furnished by Colliery Authority)	Post Mining Land use
Excavation Area including Excavation void	62.60	52.25
Backfilled Area	72.22	143.63
External OB Dump	36.68	7.10
Peripheral Haul Road	-	7.50
Road & Infrastructure area	3.00	6.50
Top Soil Dump	1.20	
Green Belt/Plantation	16.49	77.34
UG Entry	0.01	
Undisturbed/ Mining right for UG/Barren Land	119.81	29.68
Homestead land	15.00	15.00
Agriculture Land	4.86	
Water Body	-	1.50
Rationalization Area	8.09	
Embankment	0.530	
Garland Drain	0.01	
Total	340.50	340.50
6.1.3	Surface features over the block area	Important surface features and major diversion or shifting involved in the mine is given below: Road: Jharia Baliapur DB Road
6.1.4	No. of villages/Houses to be shifted	Nil. However, as per JMP 226 families from identified endangered area will be shifted.
6.1.5	Population to be affected by the project	Nil. However, 904 affected populations from identified endangered area will be shifted

6.1.6	Proposed Rehabilitation programme	To be shifted as per JMP (Govt. of India approved master plan for dealing with fire, subsidence and rehabilitation within leasehold of BCCL)
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	Parameters	Details
6.2	DETAILS OF LEASE	
6.2.1	Status of Lease	Lease available under provision of Mineral Concession Rules 1960
6.2.2	Existing Lease Area "Ha"	340.50 Ha as per Colliery Record
6.2.3	Period for which Mining Lease has been granted/is to be renewed/is to be applied for.	Mining lease has been granted by nationalisation. Valid upto 7 th December 2030
6.2.4	Date of expiry of earlier Mining Lease, if any	Not applicable
6.2.5	Whether the lease boundary/required boundary is same as mentioned in the allotment order	Mining lease has been granted by nationalisation. The applied lease area includes the existing lease area.
6.2.6	Lease Area (applied/required) as per the Mining Plan under consideration (Ha)	Lease Area is 340.50 Ha as per Colliery Record.
6.2.7	Whether the applied lease area falls within the allotted block	Applied lease area is falling inside the allotted block (BCCL)
6.2.8	Area (Ha) of lease which falls outside the delineated block/sub-block	
6.2.9	Details of outside area:	No outside block area has been considered for project area of this mine
	▪ Whether forms part of any other coal block	Not Applicable
	▪ Whether it contains any coal/lignite reserves	Not Applicable
	▪ Purpose for which it is required, e.g. roads/OB dumps/service	Not Applicable

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 Kuya Colliery VI - 3

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	buildings/colony/safety zone/others(specify)	
6.2.10	Whether some part(s) of the allotted block has not been applied for mining lease.	The whole area in the existing lease area has been proposed for mining lease
	- Total area in Ha of such part(s).	Not Applicable
	- Total reserves in such part(s). (Mt)	Not Applicable
	- Brief reasoning for leaving such part(s)	Not Applicable

Chapter 7: Environmental Management

Parameters		Details																									
16	ENVIRONMENTAL MANAGEMENT																										
Commitment from the project proponent that the company will comply Environment and Forest Condition stipulated in the respective clearances		<p>Kuya Colliery (OC) is situated in the Cluster VIII group of mines of BCCL under the administrative control of Bastacolla Area.</p> <p>The impacts (both beneficial and adverse) of mining and its allied activities of the project have been assessed and presented in respect of biophysical & socio-economic environment.</p> <p><u>Air Quality Management:</u></p> <p>The impact assessment has been carried out dealing with the following points:</p> <p>(a) Phase-wise inventory of air pollution emission sources</p> <p>(b) Impact assessment</p> <p>Sources</p> <p>i. During Operational Phase</p> <table><tr><td>(i)</td><td>Drilling & Blasting</td><td>:</td><td>Noise & Dust and SO₂, NO₂</td></tr><tr><td>(ii)</td><td>Handling of coal</td><td>:</td><td>Noise, Dust and SO₂, NO₂</td></tr><tr><td>(iii)</td><td>Movement of vehicles</td><td>:</td><td>Noise, Dust and SO₂, NO₂</td></tr></table> <p>ii. During Post Operational Stage</p> <table><tr><td>(i)</td><td>Movement of dozers for physical reclamation of subsided area</td><td>:</td><td>Noise, Dust and SO₂, NO₂</td></tr><tr><td>(ii)</td><td>Movement of vehicles for shifting and salvaging operation of OC Machineries and other equipment</td><td>:</td><td>Noise, Dust and SO₂, NO₂</td></tr><tr><td>(iii)</td><td>Movement of vehicles for clearing of coal and other materials</td><td>:</td><td>Noise, Dust and SO₂, NO₂</td></tr></table>		(i)	Drilling & Blasting	:	Noise & Dust and SO ₂ , NO ₂	(ii)	Handling of coal	:	Noise, Dust and SO ₂ , NO ₂	(iii)	Movement of vehicles	:	Noise, Dust and SO ₂ , NO ₂	(i)	Movement of dozers for physical reclamation of subsided area	:	Noise, Dust and SO ₂ , NO ₂	(ii)	Movement of vehicles for shifting and salvaging operation of OC Machineries and other equipment	:	Noise, Dust and SO ₂ , NO ₂	(iii)	Movement of vehicles for clearing of coal and other materials	:	Noise, Dust and SO ₂ , NO ₂
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(ii)	Movement of vehicles for shifting and salvaging operation of OC Machineries and other equipment	:	Noise, Dust and SO ₂ , NO ₂																								
(iii)	Movement of vehicles for clearing of coal and other materials	:	Noise, Dust and SO ₂ , NO ₂																								

Impact Assessment

The ambient air quality is influenced due to the presence of PM_{10} , $PM_{2.5}$, SO_2 , NO_2 , etc., which are generated from above sources in operational and post operational stages of coal mining. Further, the ambient air quality is affected to a varying degree due to the mining activities of other nearby opencast and underground coalmines of the same coalfield. The concentration of pollutants may vary depending upon the various micro-meteorological parameters and the seasons of a year.

Fortnightly Ambient Air Quality Monitoring of Cluster –VIII consisting of Kuya colliery (OC) is being carried out at following stations as part of routine Environmental Monitoring by CMPDI RI-II, Dhanbad:

CORE ZONE Monitoring Location

- i) Dobari UGP (A11) : Industrial Area

BUFFER ZONE Monitoring Location

- i) Jeenagora (A13) : Industrial Area
- ii) Hurriladih UGP (A28) : Industrial Area
- iii) Kusmatand Village (A12): Industrial Area

Air quality monitoring data at above stations for the period August 2022 to October 2022 is as given in the following tables.

Dobari UGP (A11)

Sl. No.	Parameter	Observed Values (in µg/m ³)					
		1st FN	2nd FN	1st FN	2nd FN	1st FN	2nd FN
		01.08.22	26.08.22	09-09-2022	22-09-2022	03.10.2022	21.10.2022
1	PM ₁₀	73	74	89	120	92	124
2	PM _{2.5}	55	36	43	68	54	68
3	SO ₂	11	<10	11	12	10	11
4	NO ₂	24	26	22	25	22	23

Jeenagora (A13)

Sl. No.	Parameter	Observed Values (in µg/m ³)					
		1st FN	2nd FN	1st FN	2nd FN	1st FN	2nd FN
		02.08.22	22.08.22	08-09-2022	23-09-2022	09.10.2022	20.10.2022
1	PM ₁₀	116	87	113	92	98	96
2	PM _{2.5}	65	53	70	62	58	53
3	SO ₂	10	11	<10	10	12	<10
4	NO ₂	8	12	16	20	30	26

Hurliadih UGP (A28)

Sl. No.	Parameter	Observed Values (in µg/m ³)					
		1st FN	2nd FN	1st FN	2nd FN	1st FN	2nd FN
		11.08.22	19.08.22	14-09-2022	27-09-2022	13.10.2022	28.10.2022
1	PM ₁₀	66	111	98	124	96	129
2	PM _{2.5}	29	36	53	68	53	70

3	SO ₂	10	<10	<10	11	<10	11
4	NO ₂	15	16	22	24	21	20

Kusmatand Village (A12):

Sl. No.	Parameter	Observed Values (in µg/m ³)					
		1st FN	2nd FN	1st FN	2nd FN	1st FN	2nd FN
1	PM ₁₀	02.08.22	29.08.22	08-09-2022	23-09-2022	09.10.2022	20.10.2022
2	PM _{2.5}	94	98	84	94	87	117
3	SO ₂	53	57	50	52	53	67
4	NO ₂	10	<10	12	<10	<10	11
		26	25	24	20	22	20

Keeping in view the above data it is evident that the air pollution in and nearby Cluster –VIII mines is generally within the GSR 742(E) Standards for Coal Mines of Jharia Coalfield but occasionally exceed the NAAQS standards. Following measures will be adopted to mitigate Air pollution from Kuya Colliery (OC):

- At the points of dust generation, Fog Cannon/Mist Sprinklers shall be installed along with water sprinkling / spraying.
- Development of Greenbelt around quarry.
- Plantation will be done on external dump and reclaimed area.
- Regular maintenance of HEMM.
- Controlled blasting will usually be done in daytime during the shift change over

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period.

- vi. Appropriate design of the geometry of blast holes.
- vii. Coal transportation will be done through covered trucks/conveyor belt to washery and also to the siding.
- viii. Wet Drilling.

Water Quality Management:

Sources

(i) Sanitary (domestic) wastewater	:	Suspended solids and BOD.
(ii) Water pumped out from Mine	:	Suspended solids of coal, clay and oil.
(iii) Surface run-off passing through coal stockpiles	:	Suspended solids.
(iv) Storm water from leasehold area and built-up area	:	Suspended solids.

Water Quality Report

Any adverse impact or pollution consequence of water will have serious effect on the environment. Hence, it becomes important to assess the water quality periodically in the mining area. Thus, to assess the water quality, samples were collected from one (01) location (for mine water) and analysed for physico-chemical characteristics. The water

sampling points were selected by consultation between BCCL & JSPCB officials. The different sources of water were identified for water quality characterization depending on their use for potable/industrial purposes and considering likely impact on these sources due to project activities. Based on these considerations, it was thought necessary to assess the existing quality of different water sources in the study area including both up & down stream of surface water body, ground water and mine water.

Mine Water Quality at Dobari OC:-

Sl. No.	Parameter	Observed Values					
		1st FN 08.08.2022	2nd FN 22.08.2022	1st FN 12.09.2022	2nd FN 26.09.22	1st FN 03.10.22	2nd FN 31.10.22
1	Total Suspended Solids	41	58	39	36	52	45
2	pH	8.17	8.08	8.12	8.13	8.08	7.69
3	Oil & Grease	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
4	COD	36	32	32	36	28	24

Water pollution control measures:

- Garland drains will be made around the periphery of the quarry and OB dump to collect and carry the contaminated water to treatment/settling pond shall be provided.
- Oil & Grease trap to treat effluent from Workshop.

	<p>iii. Entire domestic effluent will be treated in septic tanks and soaked into soak pits.</p> <p>iv. Industrial water will be put into a closed circuit.</p> <p>v. Properly designed system to collect and divert the storm water shall be provided.</p> <p>Ground water resources</p> <p>In coal mines, the different aquifers overlying the working coal seam would be contributing groundwater to the mine by gravity drainage which need to be pumped out for safe operation of the mines.</p> <p>Generally steep draw down cone would be formed in poor potential aquifers thereby the influence area is to small distance and reverse is established in respect of aquifers with high hydraulic conductivity. The Impact of mining activities is likely to be pronounced in the dip side which are estimated by utilising aquifer and mine parameters at final mine depth. It may be appropriate to mention here that the presence of prominent boundaries/water bodies, faults and also interfingering of sandstone and shale beds may restrict the propagation of draw down cone.</p> <p>Further, the ground water level decline is more in the close vicinity of the pit. The effect will be pronounced in the down – dip side and milder in the up – dip side. But this effect will be temporary in nature and once the project is over, after 2-3 rains, the regime will regain its almost original status.</p> <p>Water conservation measures</p> <p>i. Provision of Rain water Harvesting system has been made for conservation of water.</p>
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- ii. Settling pond for surface run-off with drainage system shall be provided.
- iii. Closed water circuit will be provided.

Impact on Noise level

Fortnightly Noise Level Monitoring in of Cluster –VIII consisting of covering the Kuya Colliery (OC) is being carried out at following stations as part of Routine Environmental Monitoring by CMPDI RI-II, Dhanbad:

Core Zone: Dobari OCP Industrial Area

Noise level data at the aforementioned stations is as given below.

Sl. No.	Parameter	Hour / Time of day	Observed Values (in Leq dB(A))					
			1st FN	2nd FN	1st FN	2nd FN	1st FN	2nd FN
1	Noise Level dB(A) Leq - Day	06:00 - 07:00	50.8	48.3	48.7	49.9	50.8	48.3
2		07:00 - 08:00	53.4	51.6	52.0	52.1	53.4	51.6
3		08:00 - 09:00	55.6	54.1	55.1	54.6	55.6	54.1
4		09:00 - 10:00	62.2	59.4	61.7	62.5	62.2	59.4
5		10:00 - 11:00	63.7	61.5	63.0	62.8	63.7	61.5
6		11:00 - 12:00	62.2	60.1	60.8	61.2	62.2	60.1
7		12:00 - 13:00	66.7	63.0	63.5	63.0	66.7	63.0

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8	13:00 - 14:00	62.5	64.3	63.9	64.3	62.5	64.3
9	14:00 - 15:00	60.7	65.2	63.0	65.2	60.7	65.2
10	15:00 - 16:00	59.7	57.7	58.1	57.7	59.7	57.7
11	16:00 - 17:00	59.1	57.2	49.3	48.7	49.3	48.7
12	17:00 - 18:00	58.7	56.7	49.3	50.1	49.3	50.1
13	18:00 - 19:00	57.8	55.9	47.7	46.5	47.7	46.5
14	19:00 - 20:00	56.5	54.8	45.5	44.9	45.5	44.9
15	20:00 - 21:00	55.3	54.1	45.6	44.1	45.6	44.1
16	21:00 - 22:00	52.4	51.6	45.7	42.9	45.7	42.9
	Leg DAY	60.5	59.6	59.1	59.6	59.8	59.0
1	22:00 - 23:00	45.5	44.2	45.0	44.2	44.5	44.8
2	23:00 - 00:00	43.8	43.9	47.1	46.8	43.9	46.8
3	00:00 - 01:00	44.2	43.2	46.5	45.2	43.2	42.5
4	01:00 - 02:00	43.5	42.9	46.9	46.8	42.9	42.2
5	02:00 - 03:00	42.1	42.3	44.0	44.2	42.3	41.5
6	03:00 - 04:00	42.5	41.2	50.5	50.2	49.8	50.2
7	04:00 - 05:00	40.7	41.6	44.1	43.9	41.5	45.6
8	05:00 - 06:00	40.0	40.1	40.0	40.1	42.0	44.1
	Leg NIGHT	43.1	42.6	46.4	46.0	44.7	45.6

Noise pollution control measures

- Adequate and regular maintenance of plants and machineries will be carried out.
- The noise absorbing pads at foundations will be provided.

- iii. Green belt has been proposed to prevent the propagation of sound and also to dampening its intensity.
- iv. Proper blasting techniques by designing a suitable blasting pattern after actual field observation would be followed to minimize adverse effects of ground vibration and noise if required.
- v. Personal protective gears are given to workmen exposed to dusty and noise work environment.

Hazardous Waste:

Details of Hazardous waste generated and their method of disposal:

Sl.N o.	Waste description	Method of disposal
1.	Used oil	Will be stored in drums safely in store for disposal through auction to the authorized re-processors
2.	Oil and grease	To be stored safely for auction to the authorized re-processors.
3.	Used batteries	To be stored safely for auction to the authorized re-processors.
4.	Oily sludge	To be disposed in impervious layer lined pits.
5.	Filters & filter materials containing oil during maintenance of vehicles	To be disposed in impervious layer lined pits.

- Door to door Municipal Solid Waste will be collected and subsequently this waste will be disposed by Municipal Corporation as per existing Rules.
- Sewage will be treated in Septic Tank cum Soak Pit prior to disposal.

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		<p>Socio-Economic Issues:</p> <p>The project is likely to give a boost to the economy of the area by providing primary and secondary employment to local people . The infra-structural facilities including healthcare facilities provided by the project will benefit local villagers. The progressive mine closure activity is likely to significantly reduce the impact of mining activity on the land apart from increasing the green cover and surface water availability. The yearly CSR expenditure as per existing CIL Policy ie 2% of average net profit of the company for the immediate three preceeding years or 2.00 per tonne of coal production of previous year whichever is higher, which is proposed to be spent in vicinity of Kuya Colliery (OC) will help in bringing about better socio-economic benefits to the local population.</p> <p>Top Soil Management</p> <p>a) Topsoil storage and preservation:</p> <p>i) Following three zones are developed in the topsoil mound during storage:</p> <ul style="list-style-type: none"> • Aerobic zones: Soil is active in this zone • Transition zone: Fluctuates between predominantly aerobic and anaerobic status. • This zone is inactive and low in biological activity as well as organic content. <p>➤ Stripping of Top Soil: Standard method of stripping will be used. The operation must be planned to minimise the movement of machines and vehicles to avoid compaction and damage of soil structure. Further careful control of operation is necessary to ensure planned stripping depths of the topsoil and sub-soil. These soils should be stripped and</p>
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	<p>stored separately. Intermingling of these soils during stripping is not a good practice.</p> <p>➤ It is essential that topsoil stripping should be carried out when it is dry as far as possible to reduce the risk of compaction and damage to the soil structure by smearing and remoulding. Prolonged rainfall is unsuitable. The best part of the year is when evapo-transportation exceeds precipitation i.e during the months of March-September.</p> <p>➤ Geometry of Topsoil Heap: The heap should be constructed to facilitate the following:</p> <ul style="list-style-type: none"> • To provide the maximum surface area for maintaining greater level of Biological activity. • To have slopes capable of sustaining vegetation to avoid erosion and gully formation. <p>Space constraints imposed by the site factors and soil texture would generally dictate the overall size and shape of the heap.</p> <p>As a rule of the thumb, the following stack geometry may be maintained as far as possible to preserve the topsoil and increase the shelf life.</p> <ul style="list-style-type: none"> • Height: <ul style="list-style-type: none"> i) 4.0m (Max) for sand soil ii) 2.0 to 3.0 for loamy soil • Slope: <ul style="list-style-type: none"> i) Wide slope of 1 in 3 (i.e 18.5° to the horizontal) <p>It is advisable to avoid the topsoil storage, specifically the longterm one.</p> <p>However if storage is unavoidable upon completion of the surface of the heap, the</p>
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		<p>following steps are to be followed to keep the soil in good health and to increase its shelf life :</p> <ul style="list-style-type: none"> • Surface ripping with suitable sub-soiling machine for the purpose of aeration and relieving surface compaction. • Immediate cultivation of suitable low maintenance species like dwarf grasses to prevent erosion and gully formation. • Maintenance of surface vegetation actively by seeding, mowing, and weed control operation. <p>b) Topsoil redistribution: -</p> <p>After the final grading, the topsoil would be redistributed in a manner that achieves an approximate uniform stable thickness consistent with the post mining land uses, contours, and surface water drainage system.</p> <p>Biological reclamation</p> <p>For successful biological reclamation of the reclaimed area, preference will be given to endemic species and mixed culture. The species will be selected carefully from the following groups for quick reclamation :</p> <ul style="list-style-type: none"> • Nitrogen fixing tree species for fuel wood, timber and fodder • Fruit bearing tree species • Tree species with dense foliage for shade • Flowering and ornamental tree species
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***Plantation detail as per plantation plan**

Plantation Details	Year	PLANTATION		Total Plantation (cumulative)	Remarks
		Area (ha)	Trees/ saplings		
During Post Mining Period	01-04	0	0	0	-
	PC-1	23.36	58,400	58,400	-
	PC-2	15.72	39,300	97,700	-
	PC-3	17.78	44,450	1,42,150	-
	TOTAL	56.86	1,42,150.00		

Monitoring & Management Organisation:

To have a close watch on the environmental condition and implementation of the various measures suggested, a multi-disciplinary approach is essential.

ORGANISATION CHART

Sl. No.	Measures/Actions	Agency
1.	Environmental Pollution Control	1 General Manager, Bastacolla Area
		2 Nodal Officer, (Environment), Bastacolla Area
		3 Project Officer, Kuya Colliery (OC)
		4 Area Manager (Civil), Bastacolla Area
		5 Environment Cell (BCCL H.Q.)
2.	Environmental Monitoring	1 General Manager, Bastacolla Area
		2 Area Manager (Civil), Bastacolla Area

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Modified Mining Plan and Mine Closure Plan for Kuya Colliery



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Chapter 8: Progressive and Final Mine Closure Plan

- Mine Closure Plans will have two components viz. i) Progressive or Concurrent Mine Closure Plan, and ii) Final Mine Closure Plan. Progressive mine Closure Plan would include various land use activities to be done continuously and sequentially during the entire period of the mining operations, whereas the Final mine Closure activities would start towards the end of mine life, and may continue even after the reserves are exhausted and/or mining is discontinued till the mining area is restored to an acceptable level. The Mine Closure details of the Mining Plan should be oriented towards the restoration of land back to its original condition as far as practicable.
- Mining is to be carried out in a phased manner along with reclamation and afforestation work in the mined out area.
- Progressive mine closure plans shall be prepared for a period of every five years from the beginning of the mining operations. These plans would be examined periodically in every five years period and to be subjected to the third party monitoring by the agencies approved by the Central Government, like Central Mine Planning and Design Institute Ltd. (CMPDIL), National Environmental Engineering Research Institute (NEERI), Indian Institute of technology (IIT-ISM) or any other institutes/organizations/agencies specified from time to time for the purpose.
- Various project specific activities viz. mined-out land details & their technical and biological restoration plan, water quality management, infrastructure to be retained and demolished, disposal of mining machinery, etc. has been furnished in the relevant paras. As the backfilling of the mine void is not being carried out as part of regular mining operation, it shall not be included in the list of progressive mine closure activities. However, in case, if the backfilling of mine void is being carried out specifically for closure of the mine in future due any reason, the same shall be included in the list of activities to be taken up for mine closure.


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	Parameters					Details				
8.1	Land Degradation and restoration Schedule									
8.1.1	Land Degradation and Technical Reclamation (Cumulative Areas in "Ha")									
	Stage/Year		Land Degraded				Technically Reclaimed Area			
			Excav	Dump (Extn+Top Soil)	Infra/ot hers*	Total	Backfill	Dump (Extn+Top Soil)	Batter/Infra/ot hers	Total
	Up to Base year*		146.31			146.31	71.6			71.6
	Y-1 22-23		17.84			17.84				0
	Y-2 23-24		17.2	12.92		30.12				0
	Y-3 24-25		9.55	16.02		25.57				0
	Y-4 25-26		4.98	8.36		13.34	41.42			41.42
	Post Closure					0				0
	Y=5 26-27					0	82.86	37.3		120.16
	Total		195.88	37.3	0	233.18	195.88	37.3	0	233.18
	Note: *All calculations are cumulative upto the year.									
8.1.2	Biological Reclamation (Cumulative in "Ha")									
	Stage/Year		Biologically Reclaimed Area				Forest land (Return)	Un Disturbed/ To be left for Public/com Use	Total	
			Agriculture	Plantation	Water Body	Public Company Use				Total
	Up to Base year*		0	0	0	0	0			
	Y-1		0	0	0	0	0			
	Y-2		0	0	0	0	0			
	Y-3		0	0	0	0	0			
	Y-4		0	0	0	0	0			
	Post Closure									
	Y-5		0	23.36	0	0	23.36			
	Y-6		0	15.72	0	0	39.08			
	Y-7		0	17.78	0	0	56.86			
			56.86							
8.2	Post Closure Water Quality management:				Routine Environmental Monitoring will be carried out for water quality analysis of following samples for Five years post closure period:					
		S. No.		Sample		Frequency				

		<table><tr><td>1</td><td rowspan="2">Mine Water</td><td>Fortnightly</td></tr><tr><td></td><td>Half Yearly</td></tr><tr><td>2.</td><td>Surface Water</td><td>Quarterly</td></tr><tr><td>3.</td><td>Ground Water</td><td>Quarterly</td></tr></table>	1	Mine Water	Fortnightly		Half Yearly	2.	Surface Water	Quarterly	3.	Ground Water	Quarterly
1	Mine Water	Fortnightly											
		Half Yearly											
2.	Surface Water	Quarterly											
3.	Ground Water	Quarterly											
		If any discrepancy from statutory standards is observed, necessary corrective measures will be undertaken by the management.											

8.3	Post Closure Air Quality management:	<p>A total Plantation of area 56.86 Ha is being proposed at the proposed external overburden dump of the Kuya Colliery (OC). This has been phased entirely during the post mining closure phase.</p> <p>Plantation during mining period will be undertaken after 4 years of mine life, only after the completion & stabilization of the Dump will the plantation be undertaken on the Internal Dump. (Yearly Plan shown in 8.1.2)</p> <p>Fortnightly Air Quality Monitoring will be carried out at 03 Air Quality monitoring Stations during five years post closure period.</p>
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8.4	Waste Management (Figures in Mm ³)										
	Stage/Year		OB Removal (Cumulative)			External Dump (Cumulative)		Internal Backfilling (Cumulative)		Embankment (Cumulative)	
			Top Soil	OB	Total	Top Soil	OB	Top Soil	OB	Top Soil	OB
	Y-1	22-23	0.016	21.434	21.45	0.016	11.724		9.71		
	Y-2	23-24	0.015	20.665	20.68	0.015	11.295		9.37		
	Y-3	24-25	0.008	11.482	11.49	0.008	6.282		5.2		
	Y-4	25-26	0.004	5.986	5.99	0.004	3.276		2.71		
	Total		0.043	59.567	59.61	0.043	32.577	0	26.99		

8.5	Top Soil Management – (Including Action Plan for Top Soil Management)									
	(All Figures are in MM ³)									
	Stage/Year		Top Soil Removal Plan	Top Soil Used					Total Utilised	
				Spreading Over Embankment	Spreading Over Backfill area	Spreading over External OB Dump area	Used in Green Belt Area			
	Y-1	22-23	0.016							
	Y-2	23-24	0.015							
Y-3	24-25	0.008								
Y-4	25-26	0.004								

Post Closure								
	Y-5	26-27				0.07	0.07	0.14
	Y-6	27-28				0.07	0.07	0.14
	Y-7	28-29				0.07	0.08	0.15
	Total		0.043			0.21	0.22	0.43
8.6	Management of Coal Rejects.		There is no existing or proposed washery in the Colliery.					

8.7 Restoration of Land used for Infrastructure

All the other infrastructure related to both the opencast & underground coal mining operation will be dismantled, after end of the reserve/ mine life. The list of infrastructure to be dismantled at the end of the mine life is given in the following table:

Sl. No.	Particulars
1.	Office
2.	Workshop – if not used for other projects
3.	UG machinery – if present will be shifted to other collieries for use.

8.8 Disposal of Mining Machinery

After end of life of proposed KUYA Colliery (OC), all mining machinery will be shifted to other mines of BCCL.

8.9 Safety & Security

Fencing around Opencast Workings:

- The top edge of the opencast working shall be kept fenced with wire rope strands or barbed wire, supported by posts of timber, iron or concrete (movable). The gap between the adjacent rope strand or wires shall not be more than 0.30 m and bottom most rope, strand or wire shall not be more than 0.25 m and the topmost rope, strand or wire shall not be less than 1.0 m from ground level.

8.10 Abandonment Cost and Financial Assurance

8.10.1 Abandonment Cost: Cost of Activities to be taken up for closure of the mine**

Activity Cost for Mine Closure Plan of KUYA Colliery					
Head	Parameters	Unit	Quantity	Rate Rs/Unit apr 2020)**	Escalated Amount in Crs.
Progressive Closure	Water Quality Management	LS	1	10,00,000.00	0.1078
	Air Quality Management	LS	1	40,00,000.00	0.4310
	Waste Management	MM3			-
	Barbed wire fencing around dump	m	0	2,500.00	-
	Barbed wire fencing around the pit	m	0	2,500.00	-
	Filling of Void- Rehandling of Crown Dump	MM3			-
	Top Soil Management	MM3	0.50	2,50,00,000.00	1.3469
	Technical and biological Reclamation of Mined cut of land and OB Dump	Ha	143.63	15,00,000.00	23.2149
	Plantation over virgin area including green belt	Ha	0	4,00,000.00	-
	Manpower Cost and supervision	Years	4	13,00,000.00	0.5603
	Toe wall around the dump	m	0	10,000.00	-
	Garland Drain	m	1000	2,100.00	0.2263
	Garland Drain around the dump	m	1000	2,100.00	0.2263
	Any other Activity (Subsidence management)	Ha	1	2,00,000.00	0.0216
Post Closure	Dismantling of workshop (half of the area considered)	sq m	2500	550.00	0.1482
	Rehabilitation of the Dismantled facilities	LS	1	10,00,000.00	0.1078
	Dismantling of pumps /other facilities (Assumed Data)	No.	5	1,00,000.00	0.0539
	Dismantling of pipes/other facilities	Km	4	2,50,000.00	0.1078
	Dismantling of Stowing Bunker, provisioning of pumps for bore well pumping arrangement	CUM	0	3,000.00	-
	Dismantling of UG equipment	L.S.	0	4,50,000.00	-
	Rearranging water pipeline to dump top park / Agriculture land (Assumed Data)	Km	2.0	1,50,000.00	0.0323
	Dismantling of power lines (33KV ;H.T. Line) (Assumed Data)	km	1	2,00,000.00	0.0216
	Barbed wire fencing around dump	m	3500	2,500.00	0.9428
	Barbed wire fencing around the pit	m	1300	2,500.00	0.3502
	Barbed wire fencing with masonry pillar	m	0	3,000.00	-
	Concrete wall with Masonry pillars around the pit	m		6,112.74	-

Activity Cost for Mine Closure Plan of KUYA Colliery

Head	Parameters	Unit	Quantity	Rate Rs/Unit apr 2020)**	Escalated Amount in Crs.
	Securing air shaft and installation of bore well pump	sqm	0	2,400.00	-
	Securing incline	sqm	0	15,000.00	-
	Concrete wall fencing around water body	m	0	8,354.53	-
	Boundary wall around the water body	m	250	6,471.28	0.1743
	Stabilization (viz benching, pitching etc.) of side walls of the water body	sqm	1000	2,550.00	0.2748
	Toe wall around the dump	m	0	9,000.00	-
	Garland Drain	m	0	2,100.00	-
	Garland Drain around the dump	m	3500	2,100.00	0.7922
	Drainage Channel from main OB Dump (Assumed Data)	m	300	2,100.00	0.0679
Technical and Biological Reclamation of Mined Out of land and OB Dump	Filling of Void				-
	Top Soil Management	MM3		2,50,00,000.00	-
	OB Rehandling for backfilling	Ha	0	17,00,000.00	-
	Terracing, Blanketing with soil and vegetation of External OB Dump	sqm		600.00	-
	Peripheral road, gates, view point cemented steps on bank	m	1600	5,000.00	0.8620
	Expenditure on development of Agricultural land	Ha			-
	Landscaping and Plantation	Ha	56.86	4,00,000.00	2.4507
Post Closure management and supervision	Power Cost	LS	1	10,00,000.00	0.1078
	Post Mining Water quality management	samples	38	9,265.00	0.0700
	Post Mining Air quality management		216	28,781.00	0.7004
	Subsidence monitoring for 5 years	LS	1	4,50,000.00	0.0485
	Waste Management		0		-
	Manpower Cost and supervision	Years	3	15,00,000.00	0.4849
Others	Entrepreneurship development (Vocational/ Skill development training for sustainable income of affected people)	To be decided by BCCL Management			1.5000
	Golden Handshake/ Retrenching benefits to 100 employees of OC	To be decided by BCCL Management			
	Golden Handshake/ Retrenching benefits to 200 employees of UG	To be decided by BCCL Management			
	Onetime financial grant to societies/institutions/organizations which is dependent upon the project	To be decided by BCCL Management			
	Provide jobs in other mines of the Company	To be decided by BCCL Management			

Activity Cost for Mine Closure Plan of KUYA Colliery					
Head	Parameters	Unit	Quantity	Rate Rs/Unit apr 2020)**	Escalated Amount in Crs.
	Continuation of other services like running of Schools etc	To be decided by BCCL Management			
Total					35.4329

Note ** The costs & rates shown in the table above are only estimated and the exact cost for these activities can be established at the time of execution only. If the total cost at the time of execution of above mentioned activities exceed the total estimated cost, the shortfall shall be borne by the company.

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8.10.2 Financial Assurance: Amount to be deposited in Escrow account as a security against the mine activities to be carried out of the closure of the mine

Mine Closure Cost Calculation for KUYA Colliery			
WPI as on	Apr-19	121.1	
WPI as on base date	Nov-22	152.1	
Escalation rate of Closure cost-		1.255987	
	UG	OC	
Base Rate of Closure Cost "Rs. Crs/Ha"	0.015	0.09000	
Closure Cost "Rs. Crs/Ha"	0.01884	0.11304	
Project Area	0	300.50000	
Amount to be deposited into Escrow Account "Rs. in Crs.	0.00000	33.9682	
Amount already deposited into Escrow Account "Rs. in Crs.	0	15.07650	
Net Amount to be deposited into Escrow Account "Rs. in Crs.	0.00000	18.8917	
Rate of compounding of Annual Closure Cost		5.00%	
Balance Life of the project "in yrs"	0	4	
Annual Closure Cost	0.0000000	4.7229	
Amount to be deposited into Escrow Account after compounding @ of 5% "Rs. in Crs"		20.35636	
Life of the mine considered is 4 years Project area taken is 300.50 Ha.			

Amount to be deposited into escrow account annually				
Year	UG	Year	OC	Total
1	0.00	1	4.7229	4.7229
2	0.00	2	4.9591	4.9591
3	0.00	3	5.2070	5.2070
4	0.00	4	5.4674	5.4674
Total	0.00	Total	20.3564	20.3564

The amount calculated above shall be deposited every year by BCCL in the Escrow Account in the name of Kuya Colliery (OC). Thus, total amount that shall be further

deposited for final mine closure activities of Kuya Colliery (OC) during the life of 4 years stands out to be **Rs. 20.3564 Crs.** as per the present status of the mine.

The amount already deposited in the escrow account will also be available for mine closure activities and should be included to arrive at the total funds available for mine closure activities **Rs. 35.4329 Crs.**

Particulars	Amount (Rs. in Crs)
Amount Already Deposited in Escrow Account	15.0765
Amount to be Deposited in the Escrow Account in the Future	20.3564
Total Amount available for Mine Closure Activities	35.4329

The money deposited in the Escrow Account has to deal with the following:

- Cost of closure activities.
- Cost towards organization for executing the closure activities.
- Cost of the post project monitoring.
- Creation of a corpus fund for final mine closure

Sl. No.	Name of Mine	Account No.
1	KUYA GROUP OF MINES	00150100008874

- ***A Mine Closure Plan of the Kuya group of mines above have already been approved by 340th BCCL Board held on 23.03.2018 along with corresponding escrow account numbers have already been opened with Bank of Baroda as mentioned in table above. The same escrow account may be continued for this revised mine plan.***
- ***Subsequently, after the completion of 1st Five year period after approval of the MCP in 2013, an amount of Rs. 88,88,907 was released as a part of 50% component of claimed amount Rs. 1,77,77,813 by Office of Coal Controller Office vide Order No. CC/MCPS/Policy/2013-14/328 (Pt-II) dated 24/06/2020.***
- **Implementation of the approved Mine Closure Plan shall be sole responsibility of the mine owner. Mining is to be carried out in a phase manner i.e. continuation of mining activities from one phase to another indicating the**

sequence of operations depending on the geo-mining conditions of the mine. Up to 50% of the total deposited amount including interest accrued in the escrow account may be released after every five years in line with the periodic examinations of the closure plan. The amount released should be equal to expenditure incurred on the progressive mine closure in past five years or 50% whichever is less. The balance amount shall be released to the mine owner//leaseholder at the end of the final mine closure on compliance of all provisions of Closure Plan. This compliance report should be duly signed by the lessee and certify that said closure of mine complied all statutory rules, regulations order made by the central or state government, statutory organizations, court etc. and certified by the coal controller.

Final Mine Closure would be considered to be completed only after acceptance of the third party audit report by the coal controller on the compliance of all provisions on Mine Closure Plan. Any institute/ Organization/ Agency as may be notified by the Government for this purpose may be engaged for third party audit.

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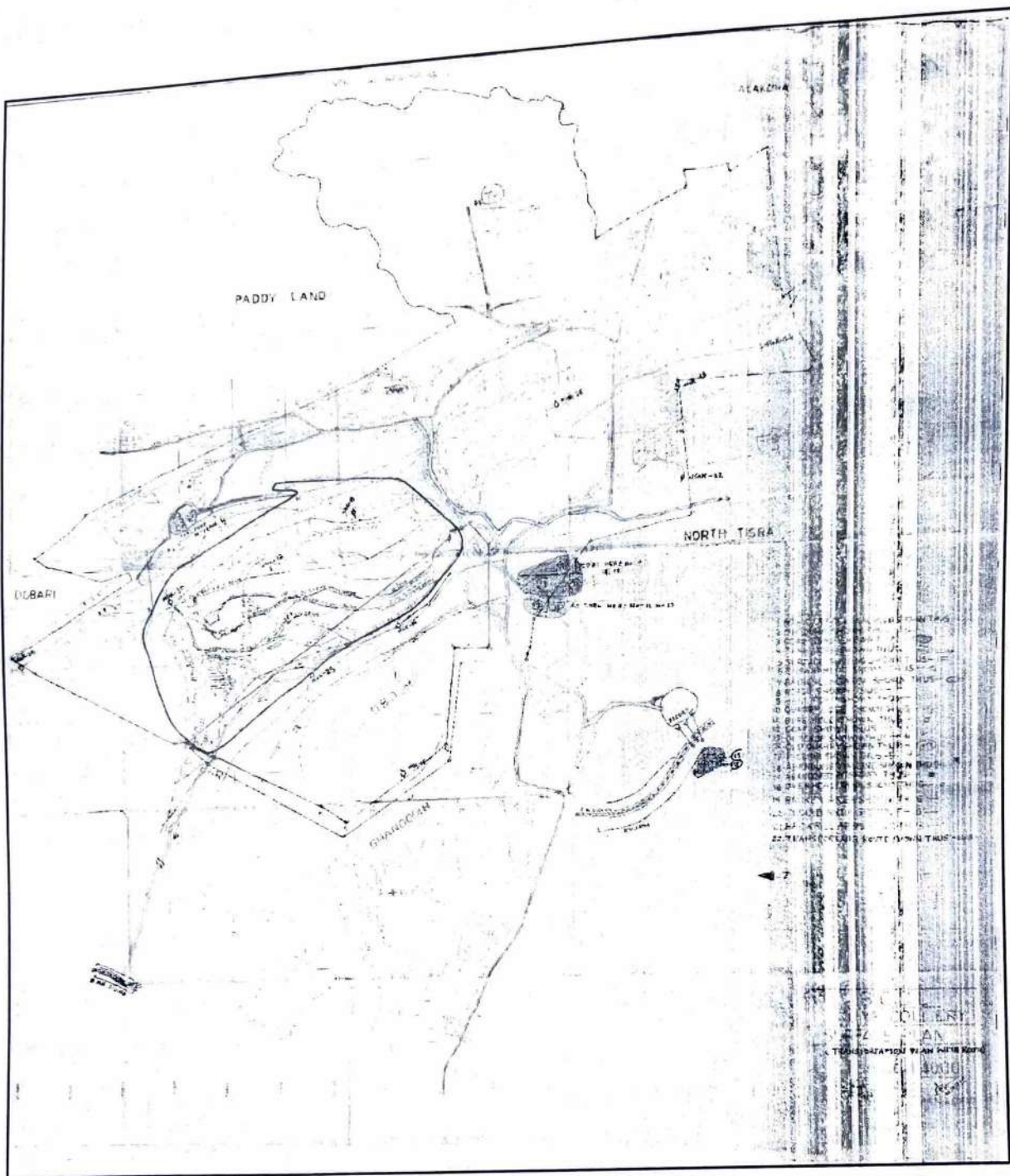
CHAPTER - VII**COAL HANDLING, WASHING & MODE OF DISPATCH**

Coal production of the mine is linked to different power houses (Power plants of DVC and other companies) and washeries (Bhojudih washery & Dugda washery) through CK (West), BNR siding and Burragarh siding and rest quantity is transported through road to MPL, RTPS and E- Auction etc. The present lead for coal transportation from face to surface is 1 to 2 Km. C. K. West Siding is 3 to 4 KM and BNR Siding is about 10 KM from the coal dump. Feeder breaker exists in KOCF and 3 Nos. of feeder breaker in C. K. West Siding. The coal has been crushed in Feeder Breaker. The crushed coal is stored in hopper. The standing tipping trucks below the hopper receive the crushed coal and spread it on the wharf. The contractual pay loader loads the coal into the railway wagons for further transport.

During 2016-17 destination-wise despatch quantity is given below :

C.K. West Siding	:	0.736402 Million Te.
BNR Siding	:	0.580472 Million Te.
E- Auction by road	:	0.138626 Million Te.
Road MPL	:	0.037666 Million Te.
Boragarh Siding	:	0.012538 Million Te.
Road Linkage	:	0.00015 Million Te.
Total dispatch during 2016-17	:	1.505721 Million Te.


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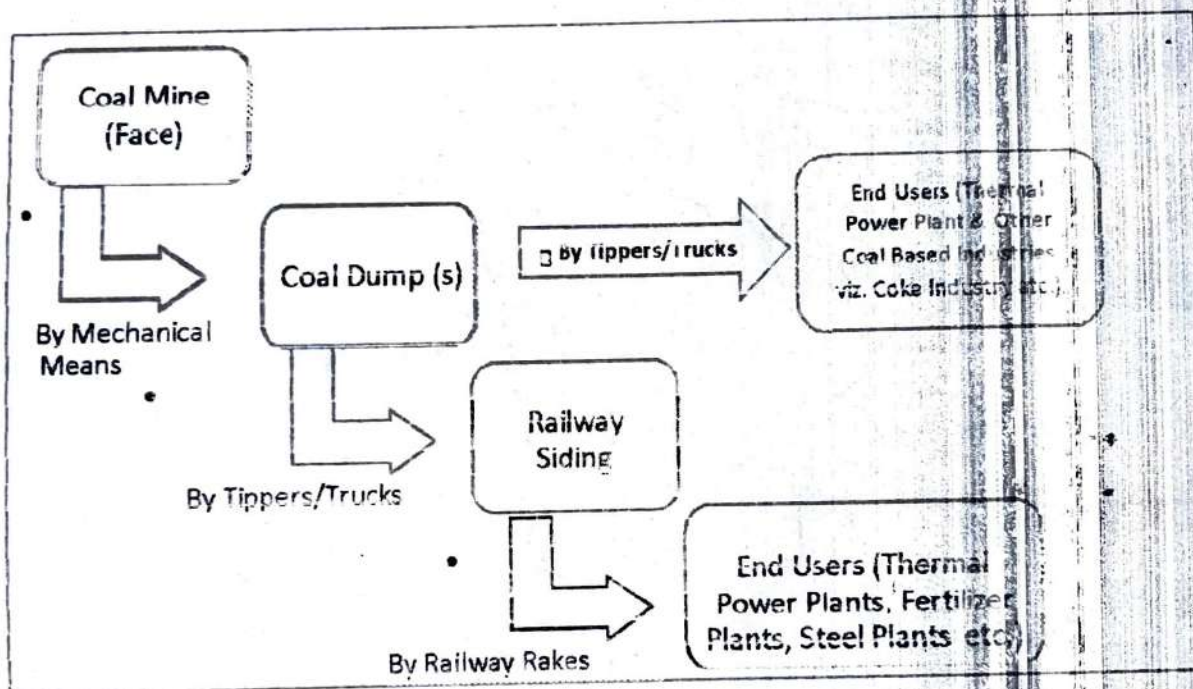
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Bharat Coking Coal Limited
(A Miniratna Company)
Office of the Project Officer
Kuya Colliery

Plan for Transportation of Coal from Mine Lease

Extracted coal from Mine is transported as per flow chart shown below:



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23/07/17

Project Officer/Agent
Kuya Colliery OCP/Kuiya OCP

Chronology of status of validity of Mining lease:

The Coking Coal Mines (Nationalization) Act, 1972 dated 17th August 1972:

The right, title & interest of the owners in relation to the coking coal mines specified in the First Schedule shall stand transferred to, and shall vest absolutely in, the Central Government, free from all in cumbrances.



The Coal India (Regulation of transfers & Validation) Act 2000 dated 8th December 2000:

A subsidiary company which was operating, or was in control of, any coal mine, coking coal mine, or coke oven plant which was vested in the Coal India or any other subsidiary company immediately before the commencement of this Act, shall be deemed to have been vested with the land or rights in or over such land or the right, title and interest in relation to such coal mine, coking coal mine or coke oven plant and such vesting shall be deemed to have been valid and effective at all material times as if a direction had been made by the Central Government under sub-section (1) of section 3 and accordingly no suit or other proceeding shall be instituted, maintained or continued in any court on the ground that such subsidiary company was not competent to operate or control such coal mine, coking coal mine or coke oven plant



Mineral Concession (Amendment) Rules, 2021 dated 1st October 2021: All subsisting mining leases vested or granted to Government Company or corporation before commencement of Mineral Concession (Amendment) Rules 2021 for Coal or lignite shall be deemed to have been granted for fifty years or till 31st March 2030, whichever is later


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 Kuya Colliery


भारत का राजपत्र
The Gazette of India

असाधारण
EXTRAORDINARY

भाग II—खण्ड 1

PART II—Section 1

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० ४४] नई दिल्ली, बृहस्पतिवार, अगस्त १७, १९७२/श्रावण २६, १८९४
No. 44] NEW DELHI, THURSDAY, AUGUST 17, 1972/SRAVANA 26, 1894

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
Separate paging is given to this Part in order that it may be filed as a separate compilation

MINISTRY OF LAW AND JUSTICE
(Legislative Department)

New Delhi, the 17th August 1972/Sravana 26, 1894 (Saka)

The following Act of Parliament received the assent of the President on the 17th August, 1972, and is hereby published for general information:—

THE COKING COAL MINES (NATIONALISATION)
ACT, 1972 ✓
No. 36 OF 1972

[17th August, 1972.]

An Act to provide for the acquisition and transfer of the right, title and interest of the owners of the coking coal mines specified in the First Schedule, and the right, title and interest of the owners of such coke oven plants as are in or about the said coking coal mines with a view to reorganising and reconstructing such mines and plants for the purpose of protecting, conserving and promoting scientific development of the resources of coking coal needed to meet the growing requirements of the iron and steel industry and for matters connected therewith or incidental thereto.

Be it enacted by Parliament in the Twenty-third Year of the Republic of India as follows:—

CHAPTER I
PRELIMINARY

1. (1) This Act may be called the Coking Coal Mines (Nationalisation) Act, 1972.

(2) The provisions of sections 30 and 31 shall come into force at once and the remaining provisions of this Act shall be deemed to have come into force on the 1st day of May, 1972.

Short
title
and com-
mence-
ment.

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Project Officer
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Kuyra Colliery

Declara-
tion as
to the
policy
of the
State.

2. It is hereby declared that this Act is for giving effect to the policy of the State towards securing the principles specified in clause (b) of article 39 of the Constitution.

Explanation.—In this section, "State" has the same meaning as in article 12 of the Constitution.

Defini-
tions.

3. In this Act, unless the context otherwise requires,—

(a) "appointed day" means the 1st day of May, 1972;

(b) "coke oven plant" means the plant and equipment with which the manufacture of hard coke has been, or is being, carried on, and includes—

(i) all lands, buildings, works, machinery and equipment, vehicles, railways, tramways and sidings, belonging to, or in, the coke oven plant,

(ii) all workshops belonging to the coke oven plant, including buildings, machinery, instruments, stores, equipment of such workshops and the lands on which such workshops stand,

(iii) all coke in stock or under production, and other stores, stocks and instruments, belonging to the coke oven plant,

(iv) all power stations belonging to the coke oven plant or operated for supplying electricity for the purpose of working the coke oven plant or a number of coke oven plants,

(v) all lands, buildings and equipment belonging to the coke oven plant where the washing of coal is carried on,

(vi) all other fixed assets, movable or immovable, and current assets belonging to a coke oven plant, whether within its premises or outside.

Explanation.—"Current assets" do not include dues from sundry debtors, loans and advances to other parties and investments, not being investments in the coke oven plant;

(c) "coking coal mine" means a coal mine in which there exists two or more seams of coking coal, whether exclusively or in addition to any seam of other coal:

(d) "company" means a company as defined in section 3 of the Companies Act, 1956, and includes a foreign company within the meaning of section 591 of that Act;

(e) "Commissioner" means the Commissioner of Payments appointed under section 20;

(f) "Custodian" means the Custodian appointed under sub-section (2) of section 14, to take over, or carry on, the management of a coking coal mine or coke oven plant;

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(g) "date of assent" means the date on which assent is given by the President to this Act;

1 of 1956.

(h) "Government company" has the meaning assigned to it by section 617 of the Companies Act, 1956;

(i) "managing contractor" means the person, or body of persons, who, with the previous Consent in writing of the State Government, has entered into an arrangement, contract or understanding, with the owner of a coking coal mine or coke oven plant under which the operations of the coking coal mine or coke oven plant are substantially controlled by such person or body of persons;

(j) "mine" means any excavation where any operation for the purpose of searching for or obtaining minerals has been or is being carried on, and includes—

(i) all borings and bore holes;

(ii) all shafts adjacent to, and belonging to, or in, a mine, whether in the course of being sunk or not;

(iii) all levels and inclined planes in the course of being driven;

(iv) all open cast working;

(v) all conveyors or aerial ropeways provided for bringing into or removal from a mine of minerals or other articles or for the removal of refuse therefrom;

(vi) all lands, buildings, works, adits, levels, planes, machinery and equipment, vehicles, railways, tramways and sidings belonging to, or in, or about, a mine;

(vii) all workshops belonging to, or in, a mine, including buildings, machinery, instruments, stores, equipment of such workshops and the lands on which such workshop stand;

(viii) all coal in stock or in transit or under production and other stores, stocks and instruments belonging to, or in, a mine;

(ix) all power stations belonging to, or in, a mine or operated for supplying electricity for the purpose of working the mine or a number of mines;

(x) all lands, buildings and equipment belonging to, or in, a mine where the washing of coal or manufacture of coke is carried on;

(xi) all other fixed assets, movable or immovable, and current assets, belonging to a mine, whether within its premises or outside.

Explanation.—"Current assets" do not include dues from sundry debtors, loans and advances to other parties and investments, not being investments in the coking coal mine;

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(k) "Mineral Concession Rules" means the rules, for the time being in force, made under the Mines and Minerals (Regulation and Development) Act, 1957;

67 of 1957.

(l) "mining company" means a company owning a coking coal mine, and in relation to a foreign company within the meaning of section 591 of the Companies Act, 1956, the undertaking of that company in India;

1 of 1956.

(m) "notification" means a notification published in the Official Gazette;

(n) "owner",—

(i) when used in relation to a mine, has the meaning assigned to it in the Mines Act, 1952,

25 of 1952.

(ii) when used in relation to a coke oven plant, means any person who is the immediate proprietor or lessee or occupier of the coke oven plant or any part thereof or is a contractor for the working of the coke oven plant or any part thereof;

(o) "prescribed" means prescribed by rules made under this Act;

(p) "scheduled bank" means a bank included for the time being in the Second Schedule to the Reserve Bank of India Act, 1934;

2 of 1934.

(q) "specified date" means such date as the Central Government may, for the purpose of any provision of this Act, by notification, specify; and different dates may be specified for different provisions of this Act;

(r) words and expressions used herein and not defined but defined in the Coal Mines (Conservation, Safety and Development) Act, 1952, have the meanings, respectively, assigned to them in that Act;

12 of 1952.

(s) words and expressions used herein and not defined in this Act or in the Coal Mines (Conservation, Safety and Development) Act, 1952, but defined in the Mines Act, 1952, shall have the meanings, respectively, assigned to them in the Mines Act, 1952.

12 of 1952.
15 of 1952.

CHAPTER II

ACQUISITION OF THE RIGHTS OF OWNERS OF COKING COAL MINES AND COKE OVEN PLANTS

Acquisition of right in coking coal mines.

4. (1) On the appointed day, the right, title and interest of the owners in relation to the coking coal mines specified in the First Schedule shall stand transferred to, and shall vest absolutely in, the Central Government, free from all incumbrances.

(2) For the removal of doubts, it is hereby declared that if, after the appointed day, any other coal mine is found, after an investigation made by the Coal Board, to contain coking coal, the provisions of the Coking Coal Mines (Emergency Provisions) Act, 1961, shall, until that mine is nationalised by an appropriate legislation, apply to such mine.

64 of 1971.

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5. On the appointed day, the right, title and interest of the owners of each of the coke oven plants specified in the Second Schedule, being the coke oven plants which are situated in or about the coking coal mines specified in the First Schedule, shall stand transferred to, and shall vest absolutely in, the Central Government, free from all incumbrances.

Acquisition of rights of owners of coke oven plants.

6. (1) Where the rights of an owner under any mining lease granted, or deemed to have been granted, in relation to a coking coal mine, by a State Government or any other person, vest in the Central Government under section 4, the Central Government shall, on and from the date of such vesting, be deemed to have become the lessee of the State Government or such other person, as the case may be, in relation to such coking coal mine, as if a mining lease in relation to such coking coal mine had been granted to the Central Government under the Mineral Concession Rules, the period of such lease being the entire period for which such lease could have been granted by the State Government or such other person under those Rules and, thereupon, all the rights under such mining lease, including surface, underground and other rights granted to the lessee shall be deemed to have been transferred to, and vested in, the Central Government.

Central Government to be the lessee of the State Government.

(2) On the expiry of the term of any lease, referred to in sub-section (1), such lease shall, if so desired by the Central Government be renewed, on the same terms and conditions on which the lease was held on the appointed day, by the lessor for the maximum period for which such lease can be renewed under the Mineral Concession Rules.

7. (1) Notwithstanding anything contained in sections 4 to 6 (both inclusive), the Central Government may, if it is satisfied that a Government company is willing to comply, or has complied, with such terms and conditions as that Government may think fit to impose, direct, by an order in writing, that the right, title and interest of an owner in relation to a coking coal mine or coke oven plant referred to, respectively, in section 4 or section 5 shall, instead of continuing to vest in the Central Government, vest in the Government company either on the date of publication of the direction or on such earlier or later date (not being a date earlier than the appointed day), as may be specified in the direction.

Power of Central Government to direct vesting rights in a Government company.

(2) Where the right, title and interest of an owner in relation to a coking coal mine or coke oven plant vest in a Government company under sub-section (1), the Government company shall, on and from the date of such vesting, be deemed to have become—

(a) the lessee in relation to such coking coal mine as if a mining lease in relation to such coking coal mine had been granted to the Government company under the Mineral Concession Rules, the period of such lease being the entire period for which such lease could have been granted under those Rules;

(b) the owner of the coke oven plant,

and all the rights and liabilities of the Central Government in relation to such coking coal mine or coke oven plant shall, on and from the date of such vesting, be deemed to have become the rights and liabilities, respectively, of the Government company.

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CHAPTER III

PAYMENT OF AMOUNT

10. The owner of every coking coal mine or group of coking coal mines specified in the second column of the First Schedule, shall be given by the Central Government, in cash and in the manner specified in section 21, for vesting in it, under section 4, the right, title and interest of the owner in relation to such coking coal mine or group of coking coal mines; an amount equal to the amount specified against it in the corresponding entry in the fifth column of the said Schedule.

Payment of amount to owners of coking coal mines.

11. The owner of every coke oven plant specified in the second column of the Second Schedule, shall be given by the Central Government, in cash and in the manner specified in section 21, for vesting in it, under section 5, the right, title and interest of the owner in relation to such coke oven plant, an amount equal to the amount specified against it in the corresponding entry in the fifth column of the said Schedule.

Payment of amount to owners of coke oven plants.

12. (1) In consideration of the retrospective operation of the provisions of section 4 and section 5, there shall be given by the Central Government, in cash, to the owner of every coking coal mine specified in the First Schedule or the owner of every coke oven plant specified in the Second Schedule, an amount equal to the amount which would have been, but for the provisions of the said section 4 or section 5, as the case may be, payable to such owner under the Coking Coal Mines (Emergency Provisions) Act, 1971, for the period commencing on the 1st day of May, 1972, and ending on the date of assent.

Payment of further amount.

(2) In addition to the amount specified in sub-section (1), there shall be given by the Central Government, in cash, to the owner of every coking coal mine specified in the First Schedule and the owner of every coke oven plant specified in the Second Schedule, simple interest at the rate of four per cent. per annum on the amount specified against such owner in the corresponding entry in the fifth column of the First Schedule or the Second Schedule, as the case may be, for the period commencing on the date of assent and ending on the date of payment of such amount to the Commissioner.

(3) The amounts referred to in sub-section (1) and sub-section (2) shall be in addition to the amount specified in the First Schedule or the Second Schedule, as the case may be.

13. (1) Where, in pursuance of any decree, order or injunction made by a court, the Central Government or the Custodian appointed under the Coking Coal Mines (Emergency Provisions) Act, 1971, was prevented from taking over the management of any coking coal mine or coke oven plant, the owner of such coking coal mine or coke oven plant shall render, within sixty days from the date of assent, to the Central Government or the Government company, as the case may be, accounts, in relation to the period commencing on the appointed day and ending on the date of assent, with regard to the—

Income derived by the owners of coking coal mines and coke oven plants after the appointed day to be refunded to the Central Government.

(a) assets or stores of the coking coal mine or coke oven plant acquired or sold by him during the said period;

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- (b) coal or coke sold or despatched during the said period;
 (c) income derived by him from the coking coal mine or coke oven plant during the said period.

(2) If, on examination of the accounts referred to in sub-section (1), any income is found to have been derived by the owner from the coking coal mine or coke oven plant during the period referred to in that sub-section, such income shall be set off against the amount specified in the First Schedule or the Second Schedule, as the case may be, against the name of such owner, and the balance of such amount shall be paid to him.

(3) If no account is rendered by the owner of a coking coal mine or coke oven plant within the period referred to in sub-section (1) or if the Central Government or the Government company has any reason to believe that the account rendered by such owner is incorrect or false in material particulars, the Central Government or the Government company may refer the matter to the Commissioner and thereupon the Commissioner shall determine the income derived by the owner from the coking coal mine or coke oven plant during the period referred to in sub-section (1), and set off such income against the amount specified in the First Schedule or the Second Schedule, as the case may be, against the name of such owner and pay the balance to such owner.

CHAPTER IV

MANAGEMENT, ETC., OF COKING COAL MINES AND COKE OVEN PLANTS

Management, etc., of coking coal mines and coke oven plants. 14. (1) The general superintendence, direction, control and management of the affairs and business of a coking coal mine or coke oven plant, the right, title and interest of an owner in relation to which have vested in the Central Government under section 4 or section 5, as the case may be, shall,—

(a) in the case of a coking coal mine or coke oven plant, in relation to which a direction has been made by the Central Government under sub-section (1) of section 7, vest in the Government company specified in such direction, or

(b) in the case of a coking coal mine or coke oven plant, in relation to which no such direction has been made by the Central Government, vest in one or more Custodians appointed by the Central Government under sub-section (2),

and thereupon the Government company so specified or the Custodian so appointed, as the case may be, shall be entitled to exercise all such powers and do all such things as the owner of the coking coal mine or coke oven plant is authorised to exercise and do.

(2) The Central Government may appoint an individual or a Government company as the Custodian of a coking coal mine or coke oven plant in relation to which no direction has been made by it under sub-section (1) of section 7.

Duty of persons in-charge of management of coking coal mines or coke oven plants to deliver all assets. 15. (1) On the vesting of the management of a coking coal mine or coke oven plant in a Government company or on the appointment of a Custodian, all persons in charge of the management of such coking coal mine or coke oven plant immediately before such vesting or appointment, shall be bound to deliver to the Government company or Custodian, as the case may be, all assets, books of account, registers or other documents in their custody relating to the coking coal mine or coke oven plant, and any contract whether entered or intimated previously for the

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management of the coking coal mine or coke oven plant made before the appointed day between such persons and the owners of such coking coal mine or coke oven plant, shall be deemed to have terminated on the date on which the management of the coking coal mine or coke oven plant vests in the Government company or the Custodian so appointed.

(2) The Central Government may issue such directions as it may deem desirable in the circumstances of the case to the Government company or Custodian as to its or his powers and duties and the Government company or Custodian may, also if it or he so desires, apply to the Central Government at any time for instructions as to the manner in which the management of the coking coal mine or coke oven plant shall be conducted by it or him or in relation to any other matter arising in the course of such management.

(3) The Custodian shall receive from the funds of the coking coal mine or coke oven plant, as the case may be, in relation to which he or it is the Custodian, such remuneration as the Central Government may fix and shall hold office during the pleasure of the Central Government.

16. The Custodian of every coking coal mine or coke oven plant shall maintain the accounts of such mine or plant in such manner and under such conditions as may be prescribed. Accounts and audit

CHAPTER V

PROVISIONS RELATING TO EMPLOYEES OF COKING COAL MINES AND COKE OVEN PLANTS

14 of 1947. 17. (1) Every person who is a workman within the meaning of the Industrial Disputes Act, 1947, and has been, immediately before the appointed day, in the employment of a coking coal mine or coke oven plant, shall become on and from the appointed day, an employee of the Central Government, or, as the case may be, of the Government company in which the right, title and interest of such mine or plant have vested under this Act, and shall hold office or service in the coking coal mine or coke oven plant, as the case may be, on the same terms and conditions and with the same rights to pension, gratuity and other matters as would have been admissible to him if the rights in relation to such coking coal mine or coke oven plant had not been transferred to, and vested in, the Central Government or Government company, as the case may be, and continue to do so unless and until his employment in such coking coal mine or coke oven plant is duly terminated or until his remuneration, terms and conditions of employment are duly altered, by the Central Government or the Government company. Employment of certain employees to continue.

14 of 1947. (2) The Central Government or the Government company in which the right, title and interest in relation to a coking coal mine or coke oven plant have vested, may employ, on mutually acceptable terms and conditions, any person who is not a workman within the meaning of the Industrial Disputes Act, 1947, and who has been, immediately before the appointed day, in the employment of a coking coal mine or coke oven plant, and on such employment the said person shall become an employee of the Central Government or the Government company, as the case may be.

(3) Save as otherwise provided in sub-sections (1) and (2), the services of every person employed by the owner or occupier of a coking coal mine or coke oven plant before the appointed day shall stand terminated on and from the specified date,

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(4) Notwithstanding anything contained in the Industrial Disputes Act, 1947, or in any other law for the time being in force, the transfer of the services of any officer or other employee from a coking coal mine or coke oven plant to any other coking coal mine or coke oven plant shall not entitle such officer or other employee to any compensation under this Act or any other law for the time being in force and no such claim shall be entertained by any court, tribunal or other authority.

(5) Where, under the terms of any contract of service or otherwise, any person whose service becomes terminated, or whose service becomes transferred to the Central Government or a Government company by reason of the provisions of this Act, is entitled to any payment by way of gratuity or retirement benefit or for any leave not availed of, or any other benefits, such person may enforce his claim against the owner of the coking coal mine or coke oven plant, as the case may be, but not against the Central Government or the Government company.

Provident fund.

18. (1) Where a coking coal mine or coke oven plant has established a provident fund for the benefit of its employees, the monies relatable to the employees, whose services have become transferred, by or under this Act, to the Central Government or a Government company, shall, out of the monies standing, on the appointed day, to the credit of such provident fund, stand transferred to, and vest in, the Central Government or the Government company, as the case may be.

(2) The monies which stand transferred, under sub-section (1), to the Central Government or a Government company shall be dealt with by that Government or company, as the case may be, in such manner as may be prescribed.

Superannuation, welfare and other funds.

19. Where a superannuation, welfare or other fund has been established for the benefit of the employees whose services stand transferred to the Central Government or a Government company, the coking coal mine or coke oven plant, by which such employees were employed, shall distribute the amount due to each such employee as if the employee had superannuated, or his services with the coking coal mine or coke oven plant had terminated, on the day immediately preceding the specified date.

CHAPTER VI

COMMISSIONER OF PAYMENTS

Commissioner of Payments to be appointed.

20. (1) For the purpose of disbursing the amounts payable to the owner of each coking coal mine or coke oven plant, the Central Government shall appoint such person as it may think fit to be the Commissioner of Payments.

(2) The Central Government may appoint such other persons as it may think fit to assist the Commissioner.

(3) The salaries and allowances of the Commissioner and other persons appointed under this section shall be defrayed out of the Consolidated Fund of India.

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21. (1) The Central Government shall, within thirty days from the specified date, pay, in cash, to the Commissioner, for payment to the owner of a coking coal mine or coke oven plant, a sum equal to the sum specified against the coking coal mine or coke oven plant, as the case may be, in the First Schedule or the Second Schedule together with the amount and interest, if any, referred to in section 12.

Payment by the Central Government to the Commissioner.

(2) In addition to the sum referred to in sub-section (1), the Central Government shall pay, in cash, to the Commissioner, such amount as may become due to the owner of a coking coal mine or coke oven plant in relation to the period during which the management of the coking coal mine or coke oven plant remained vested in the Central Government.

(3) The Commissioner shall open and operate an account in a scheduled bank in respect of each coking coal mine or coke oven plant.

(4) Every amount paid to the Commissioner shall be deposited to the credit of the account, referred to in sub-section (3), of the coking coal mine or coke oven plant to which the payment relates.

(5) Interest accruing on the amount standing to the credit of the account referred to in sub-section (3) shall enure to the benefit of the owner of the coking coal mine or coke oven plant, as the case may be.

(6) References in this section to the owner of a coking coal mine shall, in relation to a group of coking coal mines specified in the First Schedule, be construed as references to the owner of that group of coking coal mines.

22. (1) The Central Government or the Government company, as the case may be, shall cause the books in relation to each coking coal mine or coke oven plant, the management of which has vested in it under the Coking Coal Mines (Emergency Provisions) Act, 1971, to be closed and balanced as on the 30th day of April, 1972, and shall cause a statement of accounts, as on that day, to be prepared, within such time, in such form and in such manner as may be prescribed, in relation to each such mine or plant in respect of the transactions effected by it during the period for which the management of such coking coal mine or coke oven plant remained vested in it:

Statement of accounts in relation to the period of management by the Central Government, etc.

Provided that where two or more coking coal mines or coke oven plants were owned, before the commencement of this Act, by the same owner, a consolidated statement of accounts may be prepared for all the coking coal mines or coke oven plants owned by such owner.

(2) All amounts received by the Central Government or the Government company after the closure of such accounts shall, where such amounts relate to transactions effected before the appointed day, be included in the said statement of accounts in respect of the coking coal mine or coke oven plant to which the said receipt relates.

(3) The Central Government or the Government company in which the right, title and interest of the coking coal mine or coke oven plant stands vested shall be entitled to receive, up to the specified date, to the exclusion of all other persons, any money, due to the coking coal mine or

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coke oven plant, as the case may be, realised after appointed day notwithstanding that the realisations pertain to a period prior to the appointed day:

Provided that where such realisations have not been included in the statement of accounts as on the 30th day of April, 1972, a supplementary statement of accounts shall be prepared and furnished, at such intervals as may be prescribed, by the Central Government or the Government company to the owner of the coking coal mine or the coke oven plant, as the case may be.

(4) The liabilities of the coking coal mine or the coke oven plant (not being liabilities arising out of advances made by the Central Government or Government company), which could not be discharged by the appointed day, may be discharged by the Central Government or the Government company up to the specified date, and every payment made for the settlement with the owner shall be included in the statement of accounts as on the 30th day of April, 1972, indicating therein the period in relation to which the payments were made:

Provided that the liabilities in relation to the period prior to the appointed day, which have not been discharged on or before the specified date, shall be the liabilities of the owner of the coking coal mine or the coke oven plant, as the case may be.

(5) A copy of each statement of accounts prepared under this section shall be delivered by the Central Government or the Government company, as the case may be, to the Commissioner and also to the owner:

Provided that where the number of owners is more than one, only one copy of the statement of accounts shall be given to the owners for the benefit of all of them.

(6) The statement of accounts prepared under this section shall be audited by a person who is qualified to be appointed as an auditor of a company under section 226 of the Companies Act, 1956, and the auditor so appointed shall receive, from the funds of the coking coal mine or coke oven plant, as the case may be, such remuneration as the Central Government may fix.

(7) The audit of the statement of accounts shall be conducted in such manner as the Central Government may direct.

Claims
to be
made to
the com-
missioner.

23. (1) Every person having a claim against the owner of a coking coal mine or coke oven plant shall prefer such claim before the Commissioner within thirty days from the specified date:

Provided that if the Commissioner is satisfied that the claimant was prevented by sufficient cause from preferring the claim within the said period of thirty days, he may, on the expiry of the said period of thirty days, entertain the claim within a further period of thirty days, but not thereafter.

(2) Notwithstanding anything contained in any other law for the time being in force, there shall be paid in priority to all other unsecured debts, not being the amounts advanced by the Central Government or

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(8) The Commissioner shall have the power to regulate his own procedure in all matters arising out of the discharge of his functions including the place or places at which he will hold his sittings and shall, for the purpose of making any investigation under this Act, have the same powers as are vested in a civil court under the Code of Civil Procedure, 1908, while trying a suit, in respect of the following matters, namely:—

- (a) the summoning and enforcing the attendance of any witness and examining him on oath;
- (b) the discovery and production of any document or other material object producible as evidence;
- (c) the reception of evidence on affidavits;
- (d) the issuing of any commission for the examination of witnesses.

(9) Any investigation before the Commissioner shall be deemed to be a judicial proceeding within the meaning of sections 193 and 228 of the 45 of 1860. Indian Penal Code and the Commissioner shall be deemed to be a civil court for the purposes of section 195 and Chapter XXXV of the CODE of Criminal Procedure, 1898.

5 of 1898.

(10) A claimant who is dissatisfied with the decision of the Commissioner may prefer an appeal against the decision, to the principal civil court of original jurisdiction within the local limits of whose jurisdiction the coking coal mine or coke oven plant, as the case may be, is situated.

Disbursement of money by the Commissioner.

24. Where the total amount of the claim admitted by the Commissioner does not exceed the total amount of the money credited to the account of a coking coal mine or coke oven plant, every such admitted claim shall rank equally among themselves and be paid in full, and the balance, if any, shall be paid to the owner, but where such amount is insufficient to meet in full the total amount of the admitted claims, every such claim shall abate in equal proportions and be paid accordingly.

Amounts advanced by the Central Government how to be recovered.

25. Every amount advanced by the Central Government or the Custodian, as the case may be, for the management of a coking coal mine or coke oven plant shall be recovered from the income derived by such coking coal mine or coke oven plant in respect of the period during which the management of such mine or plant remained vested in the Central Government:

Provided that where such income is insufficient to meet in full the total amount of the advances made by the Central Government or the Custodian for the management of the coking coal mine or coke oven plant, the Central Government may make a claim to the Commissioner for the deficiency of the amount so advanced and the claim in respect of such deficiency shall have priority over the claims of all other unsecured creditors of the coking coal mine or coke oven plant.

Explanation.—In this section, "Custodian" means the Custodian appointed under the Coking Coal Mines (Emergency Provisions) Act, 1971. 64 of 1971.

Disputes how to be dealt with.

26. (1) In the event of there being a doubt or dispute as to the right of a person to receive the whole or any part of the amount referred to in sections 10, 11 and 12, the Commissioner shall refer the matter to the court for a decision, and shall make the disbursements in accordance with the decision of the court.

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(2) In relation to a coking coal mine or coke oven plant, the operations of which were, immediately before the 17th day of October, 1971 under the control of a managing contractor, the amount specified in the First Schedule against such coking coal mine or in the Second Schedule against such coke oven plant shall be apportioned between the owner of the coking coal mine or coke oven plant and such managing contractor in such proportions as may be agreed upon by or between the owner and such managing contractor, and in the event of there being no such agreement, in such proportions as may be determined by the court.

Explanation.—In this section, "court", in relation to a coking coal mine or coke oven plant, means the principal civil court of original jurisdiction within the local limits of whose jurisdiction the coking coal mine or coke oven plant is situated.

27. Any money paid to the Commissioner which remains undisbursed or unclaimed after such payment for a period of three years shall be transferred by the Commissioner to the general revenue account of the Central Government; but a claim to any money so transferred may be preferred to the Central Government by the person entitled to such payment and shall be dealt with as if such transfer had not been made, the order, if any, for payment of the claim being treated as an order for the refund of revenue.

Undisbursed or unclaimed amounts to be deposited to the general revenue account.

CHAPTER VII

MISCELLANEOUS

28. The provisions of this Act shall have effect notwithstanding anything inconsistent therewith contained in any other law for the time being in force or in any instrument having effect by virtue of any law other than this Act, or in any decree or order of any court, tribunal or other authority.

Effect of Act on other laws.

29. (1) Every contract entered into by the owner or occupier of any coking coal mine or coke oven plant for any service, sale or supply before the appointed day shall, on and from the expiry of one hundred and twenty days from the date of assent, cease to have effect unless such contract is, before the expiry of that period, ratified, in writing, by the Central Government and in ratifying such contract the Central Government may make such alterations or modifications therein as it may think fit:

Contracts cease to have effect unless ratified by the Central Government.

Provided that the Central Government shall not omit to ratify a contract unless it is satisfied that such contract is unduly onerous or has been entered into in bad faith or is detrimental to the interests of the coking coal mine or coke oven plant.

(2) The Central Government shall not omit to ratify a contract or make any alteration or modification therein except after giving to the parties to the contract a reasonable opportunity of being heard and except after recording in writing its reasons for refusal to ratify the contract.

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Penalties.

30. Any person who,—

(a) having in his possession, custody or control of any property forming part of the undertaking of any coking coal mine or coke oven plant referred to in the First Schedule or the Second Schedule, as the case may be, wrongfully withholds such property from the Central Government, or Government company, or

(b) wrongfully obtains possession of, or retains, any property forming part of the undertaking of any coking coal mine or coke oven plant referred to in the First Schedule or the Second Schedule, as the case may be, or wilfully withholds or fails to furnish to the Central Government or any person specified by that Government, any document relating to such coking coal mine or coke oven plant, which may be in his possession, custody or control, or fails to deliver to the Custodian any assets, books of account, registers or other documents in his custody relating to the coking coal mine or coke oven plant in respect of which a Custodian has been appointed, or

(c) wrongfully removes or destroys any property of any coking coal mine or coke oven plant or prefers any claim under this Act in relation to such mine or plant, which he knows or has reasonable cause to believe to be false or grossly inaccurate,

shall be punishable with imprisonment for a term which may extend to two years, or with fine which may extend to ten thousand rupees, or with both.

Offences
by com-
panies.

31. (1) Where an offence under this Act has been committed by a company, every person who at the time the offence was committed was in charge of, and was responsible to, the company for the conduct of the business of the company as well as the company, shall be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly:

Provided that nothing contained in this sub-section shall render any such person liable to any punishment, if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.

(2) Notwithstanding anything contained in sub-section (1), where any offence under this Act has been committed with the consent or connivance of, or is attributable to, any neglect on the part of, any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall be deemed to be guilty of that offence and shall be liable to be proceeded against and punished accordingly.

Explanation.—For the purposes of this section,—

(a) "company" means any body corporate and includes a firm or other association of individuals; and

(b) "director", in relation to a firm, means a partner in the firm.

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32. No proceeding for the winding up of a mining company, the right, title and interest in relation to the coking coal mine or coke oven plant owned by which have vested in the Central Government or in a Government company under this Act or for the appointment of a receiver in respect of such business, shall lie in any court except with the consent of the Central Government.

Mining companies not to be wound up by court.

33. (1) The Central Government may, by notification, direct that all or any of the powers exercisable by it under this Act may also be exercised by any person or persons as may be specified in the notification

Delegation of powers.

(2) Whenever any delegation of power is made under sub-section (1), the person to whom such power has been delegated shall act under the direction, control and supervision of the Central Government.

34. (1) The Central Government may, by notification, make rules to carry out the provisions of this Act.

Power to make rules.

(2) In particular, and without prejudice to the generality of the foregoing power, such rules may provide for all or any of the following matters, namely:—

(a) the manner in which the coking coal mines or coke oven plants shall be managed by a Government company or a Custodian;

(b) the manner in which provident fund monies referred to in section 18 shall be dealt with;

(c) the form and manner in which the statement of accounts referred to in section 22 shall be prepared;

(d) any other matter in relation to which such rule is required to be, or may be, made.

(3) Every rule made by the Central Government under this Act shall be laid, as soon as may be after it is made, before each House of Parliament, while it is in session, for a total period of thirty days which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session immediately following the session or the successive sessions aforesaid, both Houses agree in making any modification in the rule or both Houses agree that the rule should not be made, the rule shall thereafter have effect only in such modified form or be of no effect, as the case may be; so, however, that any such modification or annulment shall be without prejudice to the validity of anything previously done under that rule.

35. If any difficulty arises in giving effect to the provisions of this Act, the Central Government may, by order, not inconsistent with the provisions of this Act, remove the difficulty:

Power to remove difficulties.

Provided that no such order shall be made after the expiry of a period of two years from the date of assent.

36. Nothing in this Act shall apply to any coking coal mine—

(a) owned or managed by a Government company or corporation owned or controlled by Government:

(b) owned or managed by a company engaged in the production of iron or steel:

Coking coal mines to which the Act shall not apply.

Provided that this section shall not extend to such mine or part thereof which, in the opinion of the Central Government, is in excess of the requirements for the production of iron and steel by that company.

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THE FIRST SCHEDULE

(See sections 4 and 10)

Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
1	Dhori (EB-1)	Post office Bermo, District Hazaribagh.	Ownership under dispute.	6,77,500
2	Kalyani Selected Kargali (EB-2)	Post Office Pichri, District Hazaribagh.	Gouri Shanker and Others, Post Office Bermo, Hazaribagh.	7,19,000
3	Khas Dhori (EB-3)	Post Office, Pichri, District Hazaribagh.	Khas Dhori Colliery Company, Post Office Katrasgarh, Dhanbad.	4,07,000
4	Pipradih (EB-4)	Post Office, Gomia, District Hazaribagh.	Pacific Coal Company, Post Office Gomia, District Hazaribagh.	14,13,500
5	Pichri (EB-5)	Post Office Pichri, District Hazaribagh.	Pichri Colliery Company Private Limited, Post Office Bermo, Hazaribagh.	3,21,800
6	Selected Dhori (EB-6)	Post Office Bermo, District Hazaribagh.	Selected Dhori Colliery, Post Office Katrasgarh, Dhanbad.	7,43,500
7	Turiyo (EB-7)	Post Office Turiyo, District Hazaribagh.	Bhubaneswar Singh and Shiydayal Rathi Post Office, Jharia, Dhanbad.	5,74,000
8	Tarmi (EB-8)	Post Office Turiyo, District Hazaribagh.	Tarmi Colliery Company, Industrial Bank Building, Post Office Jharia, Dhanbad.	8,30,500
9	Albion (J-1)	Post Office Karmatand	Albion Colliery Company, Post Office Karmatand, Dhanbad.	4,02,000
10	Bokaro Jharia (J-3)	Post Office Karmatand	Messrs. Agarwalla Brothers, Post Office Karmatand, Dhanbad.	4,64,000
11	North Damuda (J-3)	Post Office Nudkharkee	Hazaribagh Coal Syndicate Private Limited, Post Office, Jharia, Dhanbad.	8,39,300
12	Kessurgarh (J-4)	Post Office Nudkharkee	Manbhoom Coal Syndicate Limited, Post Office Jharia, Dhanbad.	27,50,000
13	Madhubani (J-5)	Post Office Nudkharkee	Oriental Coal Company Limited 25, Brabourne Road, Calcutta-1.	1,17,59,500
14	Kankanee (J-67)	Post Office Bansjora		
15	Pootkee (J-69)	Post Office Kusunda		
16	Amlabad (J-188)	Post Office Bhowrah		
17	Bhowrah North (J-189)	Post Office Bhowrah		
18	Bhowrah South (J-190)			
19	Mahalsani (J-191)			
20	Begunia (R-6)	Post Office Barakar, District Burdwan.		
21	Khas Benedih (J-6)	Post Office Nawagarh	K. C. Mukherjee and Others, Post Office Hirapur, Dhanbad.	2,88,000
22	Benedih (J-7)	Post Office Nudkharkee	Benedih Coal Concern, Post Office Katras, Dhanbad.	3,03,000

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Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
23	Khas Ganeshpur (J-8)	Post Office Nawagarh	Khas Ganeshpur Coal Mines Limited, 135, Canning Street, Calcutta.	37,500
24	Ganeshpur (I-9)	Post Office Nawagarh]	Ganeshpur Coal Company Private Limited, Post Office Ganeshpur, Dhanbad.	37,500
25	Ashakuti Phularitand (J-10)	Post Office Kharkharee	Ashakuti Coal Company Limited, 1/1, Rowland Road, Calcutta-20.	18,19,000
26	Mohanpur (J-11)	Post Office Kharkharee	Shrimati Parbati Devi, Post Office Kharkharee, Dhanbad.]	25,000
27	New Bansiora (J-12)	Post Office Kharkharee	S. K. Sahana and Sons Private Limited, Post Office Kharkharee, Dhanbad.	1,49,000
28	Khas Bhurangya (J-13)	Post Office Mohuda	Khas Bhurangya Coal Company, Post Office Jharia, Dhanbad.	5,000
29	Raneedih/Pipratand (J-14)	Post Office Mohuda	Shri K. L. Sablok, C/o Sudarsan Motors, Post Office Dhansar, Dhanbad.	35,000
30	East Mucheraidih (J-15)	Post Office Mohuda	East Mucheraidih Coal Company Limited, Post Office Jharia, Dhanbad.	5,000
31	New Huntodih (J-16)	Post Office Mohuda	New Huntodih Coal Company Limited, 178, Mahatma Gandhi Road, Calcutta-1.	21,300
32	Bhatdee (J-19)	Post Office Mohuda	Bengal Bhatdee Coal Company Limited, 14, Netaji Subhas Road, Calcutta.	19,60,800
33	Kharkharee (J-20)	Post Office Kharkharee	Bharat Mining Corporation Limited, 91, Stephen House, Dalhousie Square East, Calcutta-1.	19,66,000
34	New Sinidih (J-21)	Post Office Kharkharee	Messrs. Bamandih Coal Company Limited, 3, Synagogue Street, Calcutta-1.	39,500
35	Dharmaband (J-22)	Post Office Katrasgarh	H. A. Barat and M.C. Barat, Post Office Katrasgarh, Dhanbad.	16,300
36	New Dharmaband (J-23)	Post Office Malkera	Sethia Mining and Manufacturing Company Limited, 4, Bakul Bagan Road, Calcutta.	12,65,000
37	Sinidih (J-25)	Post Office Katrasgarh	Sinidih Colliery Concern Private Limited, Post Office Katrasgarh, Dhanbad.	5,13,500
38	Tundoo Khas (J-26)	Post Office Tundoo	J. P. Lala & Sons Collieries Private Limited, Post Box No. 76, Dhanbad.	4,79,000
39	Bilbera (J-37)	Post Office Katrasgarh	B. N. Mondal and Company, 223 Canning Street, Calcutta.	13,93,500
40	Jealgora Govindpur (J-28)	Post Office Sonardih	Jealgora Govindpur Colliery Company Limited, Post Office Sonardih, Dhanbad.	12,50,500
41	South Govindpur (J-29)	Post Office Katrasgarh]	H. I. Pathak, Post Office Katrasgarh, Dhanbad.	4,22,500]
42	Diamond Tettuliya (J-30)	Post Office Sonardih	Bihar Collieries Limited, District Dhanbad.	15,000
43	Central Tetturiya (J-31)	Post Office Malkera	Sri Tarapada Lodha & Others, Post Office Katrasgarh, District Dhanbad.	7,500

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Sl. No.	Name of the mine	Location of the mine	Name and address of the owner of the mine	Amount (in rupees)
1	2	3	4	5
44	New Tentulia (J-32)	Post Office Malkera	Tentulia Khas Colliery Company Limited, 25, Barbourne Road, Calutta.	16,86,500
45	Central Kooridih Sonardih (J-33)	Post Office Katrasgarh	Central Kooridih Colliery Company, Post Office Katrasgarh, Dhanbad.	12,23,500
46	New Gobindpur (J-34)	Post Office Sonardih	New Gobindpur Coal Company Limited, 33, Canning Street, Calcutta-1.	13,92,000
47	Khas Mehtadih (J-35)	Post Office Katrasgarh	Messrs. Khas Mehtadih Colliery Company, Post Office Katrasgarh, Dhanbad.	13,80,000
48	Agardi (J-36)	Post Office Katrasgarh	Agardi Colliery Company, Post Office Katrasgarh, District Dhanbad.	3,78,800
49	Katras Choitodih (J-37)	Post Office Katrasgarh	Burrakar Coal Company Limited, Chartered Bank Building, Calcutta-1.	1,68,56,000
50	Mudidih (J-62)	Post Office Sijua		
51	Badruchuk (J-63)			
52	Loyabad (J-68)			
53	Lakurka (J-38)	Post Office Katrasgarh	Lakurka Coal Company Limited, 3, Synagogue Street, Calcutta.	7,27,000
54	Koiludih (J-39)	Post Office Katrasgarh	Messrs. East Katras Colliery Company Private Limited, Post Office Katrasgarh, Dhanbad.	20,02,000
55	East Katras (J-41)			
56	Khas Govindpur (J-40)	Post Office Katrasgarh	Khas Govindpur Coal Company Private Limited, Post Office Katrasgarh, Dhanbad.	2,65,000
57	East Salanpur (J-42)	Post Office Katrasgarh	East Salanpur Colliery Company, Post Office, Katrasgarh, Dhanbad.	2,97,500
58	Joint Salanpur (J-43)			
59	Khas Salanpur (J-44)			
60	North Salanpur (J-45)	Post Office Katrasgarh	Sahai Brothers (Receiver: H. S. Sahai), Post Office Katrasgarh, Dhanabad.	1,00,000
61	Selected Salanpur (J-46)	Post Office Katrasgarh	Central Salanpur Colliery Company, Post Office Katrasgarh, Dhanbad.	5,000
62	Central Salanpur (J-47)	Post Office Katrasgarh	Central Salanpur Coal Concern, Post Office Katrasgarh, Dhanbad.	1,84,500
63	Lakurka Khas (J-48)	Post Office Katrasgarh	Dharat's Debutter Estate, Post Office Katrasgarh, Dhanbad.	1,96,800
64	Salanpur (J-49)	Post Office Katrasgarh	M/s. New Lakurka Colliery Company and Shrimati Sarojini Devi, Post Office, Katrasgarh, Dhanbad.	4,14,500
65	New Lakurka (J-50)			
66	National Angarpathra (J-51)	Post Office Katrasgarh	National Coal Company Private Limited, 48/1, Ram Tarun Bose Lane, Calcutta-6.	2,89,000
67	Union Angarpathra (J-52)	Post Office Sijua	Union Coal Company Limited, 135, Biplabi Rash Behari Basu Road, Calcutta-1.	4,51,000
68	Gaslitam (J-53)	Post Office Sijua	New Manbhun Coal Company, 138, Biplabi Rash Behari Basu Road, Calcutta-1.	12,42,000
69	Ramkanali (J-54)	Post Office Katrasgarh	Bijali Kanti Roy, Keshalpur House, Post Office, Katrasgarh, Dhanbad.	4,70,000

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Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
70	Trigonait (J-55)	Post Office Katrasgarh	East Angarpathra Colliery Company Limited, Post Office Katrasgarh, Dhanbad.	16,20,000
71	Kanta Pahari (J-56)			
72	Khas Angarpathra (J-57)			
73	Jharia Khas (J-58)			
74	East Angarpathra (J-59)			
75	Mahabir Angarpathra (J-60)	Post Office Katrasgarh	Diamond Angarpathra Colliery Company, Post Office Katrasgarh, Dhanbad.	5,000
76	Diamond Angarpathra (J-61)			
77	Jogta (J-64)	Post Office Sijua	Jogta Coal Company Limited, Post Office Sijua, Dhanbad.	6,82,000
78	Sendra (J-65)	Post Office Bansjora	Messrs. Hind Shippers Limited, 135, Eiplabi Rash Behari Basu Road, Calcutta-1.	9,99,000
79	Sendra Bansjora-Gopal Gararia (J-66)	Post Office Bansjora	Messrs. Sendra Bansjora Colliery Company Private Limited, 135, Canning Street, Calcutta-1.	13,29,000
80	North Ekra (J-78)			
81	Gararia (J-79)			
82	Gopalichuck (West) (J-70)	Post Office Kusunda	Central Kirkend Coal Company Limited, 91, Stephen House, Dalhousie Square East, Calcutta-1.	6,94,000
83	Central Kirkend (J-71)			
84	Motiram's Kirkend (J-72)	Post Office Kusunda	Motiram Rochand Coal Company Private Limited, Dhanad.	43,800
85	Khas Kirkend (J-73)	Post Office Kusunda	Phuramal Agrwal, Post Office Dhansar, Dhanbad.	18,300
86	Kirkend (J-74)	Post Office Kusunda	New Marine Coal Company (Bengal) Limited, 111, Chittaranjan Avenue, Calcutta.	16,24,000
87	New Marine (J-75)			
88	Bansdeopur (J-77)	Post Office Kastinda	New Bansdeopur Coal Company Limited, 26-B, Netaji Subhas Road, Calcutta.	4,44,500
89	Central Gararia (J-80)	Post Office Bansjora	Central Gararia Colliery Company Private Limited, Post Office Bansjora, Dhanbad.	58,800
90	Gararia (J-81)	Post Office Bansjora	Tikmani and Company, Post Office Bansjora, Dhanbad.	1,34,000
91	Chhoti Bowa (J-82)	Post Office Bansjora	Chhoti Bowa Colliery Company Limited, Post Office Bansjora, Dhanbad.	3,27,500
92	Murulidih (J-17)	Post Office Mohuda	Kalyanji Marji and Company, 14, Netaji Subhas Road, Calcutta-1.	21,33,000
93	West Bhuggatdih (J-95)	Post Office Jharia		
94	Industry (J-96)	Post Office Dhansar		
95	West Ena (J-97)	Post Office Dhansar		
96	Murulidih 26 and 21 Pits. (J-18)	Post Office Mohuda	Bengal Coal Company Limited, 8, Clive Row, Calcutta-1	49,49,000
97	Chandri (K-3)	Post Office Chirkunda, District Dhanbad.		
98	Maheshpur (J-24)	Post Office Katrasgarh	Messrs. Sahu Minerals and Properties Limited, A-3, Prithviraj Road, Jaipur.	29,68,000
99	Ekra Khas (J-76)	Post Office Kusunda		
100	Busseriya (J-83)	Post Office Kusunda	Busseriya Coal Company (Private) Limited, 13, Radha Bazar Lane, Calcutta-1.	4,29,500
101	Busseriya North and South (J-85)			

परियोजना प्रबंधिका
Project Officer
कुर्खी कोयला
Kura Colliery

Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
102	East Extra (J-84)	Post Office Bansjora	East Ekra Coal Company, C/o K. Worah, Jora Bangalow, Dhanbad.	11,300
103	North Busseriya (J-86)	Post Office Bansjora	North Busseriya Colliery Company, Post Office Bansjora, Dhanbad.	1,75,300
104	Surendra East Loyabad (J-87)	Post Office Kirkend	Surendra East Loyabad Colliery Company, Post Office Jharla, Dhanbad.	1,24,500
105	Gondudih (J-88)	Post Office Kusunda	Central Alkusa Colliery Company, Post Office Kusunda, Dhanbad.	3,57,000
106	Dhariajoba (J-89)	Post Office Kirkend	M/s. H. D. Agarwalla & Sons, Post Office Jharla, Bihar.	13,65,000
107	West Godhur (J-90)	Post Office Kusunda		
108	Godhur (J-91)	Post Office Kusunda	Godhur Colliery Company, Post Office Kusunda, Dhanbad.	33,07,000
109	Pure Kustore (J-92)	Post Office Kusunda	Pure Kustore Colliery Company, Post Office Kusunda, Dhanbad.	19,27,500
110	Nayadee Kusunda (J-93)	Post Office Kusunda	Kusunda Nayadee Colliery Company (Private) Limited, Post Office Kusunda Dhanbad.	27,42,000
111	Kusunda (J-94)	Post Office Kusunda	Not available.	5,000
112	Kendwadih (J-98)	Post Office Kusunda	East India Coal Company Ltd., Post Office Jealgora, Dhanbad.	93,28,500
113	South Bulliary (J-101)	Post Office Kusunda		
114	Jealgora (J-184)	Post Office Jealgora		
115	Bararee Joyarampur (J-168)			
116	Bararee (J-185)			
117	Balihari C.T.C. (J-99)	Post Office Kusunda	Not available.	22,500
118	Kutchi Balihari (J-100)	Post Office Kusunda	Balihari Colliery Company Limited, 14, Netaji Subhas Road, Calcutta-1.	6,53,000
119	Bhagaband (J-102)	Post Office Bhagaband	The Borrea Coal Company Limited, Chartered Bank Building, Calcutta-1.	32,58,000
120	Gonshadih (J-104)	Post Office Kusunda	Sri Biswanath Roy, Keshavnagar House, Post Office Katrasjath, Dhanbad.	12,50,500
121	Kendwadih (J-103)	Post Office Bhaga	Equitable Coal Company Limited, 1/2-Lord Sinha Road, Calcutta-16.	98,800
122	Bhutgoria (J-109)			
123	Hurridih (J-110)			
124	Alkusa South (J-105)	Post Office Kustore	Raneegunge Coal Association Limited, 3A, Chowringhee Place, Calcutta-13.	91,95,000
125	Kustore (J-106)	Post Office Kustore		
126	Burragarh (J-107)	Post Office Jharla	Shri P. Roy, Director and nominated owner, Bhalgors Coal Company, 3, Synagogue Street, Calcutta.	4,93,000
127	Pure Burragarh (J-108)			
128	Simlabahal (J-111)	Post Office Jharla		

परियोजना पदाधिकारी
Project Officer
कुईयो कोलियरी
Kuya Colliery

No.	Name of the mine	Location of the mine	Name and address of the owner of the mine	Amount (in rupees)
121	Bhuggardih (J-112)	Post Office Dhanbad	Bengal Nagpur Coal Company, 5, Synagogue Street, Calcutta-1.	6,47,000
120	Eua (J-113)	Post Office Dhanbad	North West Coal Company Limited, 5, Synagogue Street, Calcutta-1.	9,77,500
131	East Bhagora (J-114)	Post Office Jharia	East Bhuggardih Colliery Company (Private) Limited, Post Office Jharia, Dhanbad.	17,08,000
132	Khas Jharia (J-115)			
133	East Eua (J-116)			
134	East Bhuggardih (J-117)			
135	Selected Khas Jharia (J-118)			
136	Selected Jharia (J-119)	Post Office Jharia	Bhagora Coal Company Limited, 3, Synagogue Street, Calcutta-1.	4,86,000
137	Selected Model Jharia (J-121)			
138	Bhagora (J-120)	Post Office Jharia	Bhagora Coal Company Limited, 3, Synagogue Street, Calcutta-1.	4,86,000
139	New Khas Jharia (J-122)	Post Office Jharia	Fularibad Colliery Company, Post Office Jharia, Dhanbad.	15,000
140	Fularibad (J-123)			
141	Smalibad (J-138)			
142	Rajapur (J-125)	Post Office Jharia	Rajapur Colliery Company Limited, Post Office Jharia, Dhanbad.	2,39,000
143	Khas Bhuggardih (J-126)	Post Office Jharia	Khas Bhuggardih Colliery Company, Post Office Jharia, Dhanbad.	2,67,000
144	New Pure Jharia (J-124)	Post Office Jharia	D.D. Thacker and Sons, Dhanbad.	10,000
145	Pure Jharia (J-127)			
146	K. P. Dobari (J-128)	Post Office Jharia	K. P. Dobari, Post Office Jharia.	54,300
147	South Jharia (J-129)	Post Office Jharia	J. K. Banerjee and Others, Post Box No. 46, Hiranpur, District Dhanbad.	1,45,800
148	Model Jharia (J-132)			
149	East Pure Jharia (J-130)	Post Office Jharia	Owner not known.	5,000
150	Dobar (J-131)	Post Office Jharia	R. N. Bagchi and Brothers, 5, 8, Middle Row, Calcutta.	3,42,300
151	East Model Jharia (J-132)	Post Office Jharia	Not available.	5,000
152	Golden Jharia (J-134)	Post Office Jharia	Khora Ramji, Post Office Jharia, Dhanbad.	5,000
153	Patehpur (J-135)	Post Office Jharia	G.K. Dossa and Company, Post Office Jharia, Dhanbad.	5,000
154	Pure Durgapur (J-136)	Post Office Jharia	Pure Durgapur Colliery Company Private Limited, Post Office Jharia, Dhanbad.	5,000
155	Khas Jharia (J-137)	Post Office Jharia	Fularibad Colliery Company, Post Office Jharia, Dhanbad.	5,000
156	Ginhoodih (J-139)	Post Office Jharia	S. B. Banerjee and Sons, Post Office Jharia, Dhanbad.	27,52,000
157	East Jharia (J-140)	Post Office Jharia	Not available.	5,000
158	K. P. Kuma (J-141)	Post Office Jharia	Jayantilal Keshavji Bale, Dhab House, Joraphatak, Post Office Dhanbad, Dhanbad.	96,800
159	Kujama (J-142)			

परियोजना
Project
कुईवी कोलियरी
Kuya Colliery

Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
160	North Kujama (J-143)	Post Office Jharia	Ganji Dossa and Company, Post Office Jharia, Dhanbad.	63,500
161	Central Kujama (J-144)			
162	Nanji Kujama (J-145)			
163	Pandebera (J-146)		Central Kujama Coal Concern, Post Office Jharia, Dhanbad.	5,26,000
164	Puce Kujama (J-147)			
165	Kujama Pandebora (J-148)	Post Office Jharia		
166	South Kujama (J-149)		Bagdigi Kujama Collieries Company (1946) Limited, Post Office Jharia, Dhanbad.	25,84,000
167	Goluckdih (J-150)	Post Office Jharia	Goluckdih Colliery Company, 22, Bartolla Street, Calcutta.	13,96,000
168	South Goluckdih (J-151)	Post Office Jharia	Messrs. Khimji Dossa and Sons, Post Office Jharia, Dhanbad.	8,78,000
169	Central Jharia (J-152)		and South Goluckdih Coal Company, Post Office Jharia, Dhanbad.	
170	Indian Jharia (J-153)			
171	Lower Upper Jharia (J-154)	Post Office Jharia	Khimji Dossa & Sons, Post Office Jharia, Dhanbad.	1,33,300
172	Central Tisra (J-155)	Post Office Jharia	Shri K. D. Singh, Post Office Jharia, Post Box No. 111, Dhanbad.	2,71,000
173	Tisra (D.D.) (J-156)	Post Office Jharia	Dhanji Devji and Sons, Post Office, Jharia, Dhanbad.	2,72,800
174	Tisra (Diamond) (J-157)	Post Office Jharia	The Diamond Coal Company Limited, Post Office Jharia, Dhanbad.	2,56,000
175	Tisra (A.G.) (J-158)	Post Office Jharia	Amarsing Gowamal & Sons, Post Box No. 47, Jharia, Dhanbad.	3,38,500
176	Sree Commercial (J-159)	Post Office South Tisra	Bengal Jharia Colliery Company Private Limited, Post Office South Tisra, Dhanbad.	8,50,000
177	Bengal Jharia (J-160)			
178	East India (J-161)			
179	Khas Joyrampur (J-163)	Post Office Khas Jeenagora.	Khas Joyrampur Colliery Company, Post Office Khas Jeenagora, Dhanbad.	31,51,000
180	Lower Joyrampur (J-165)			
181	Pure Joyrampur (J-169)	Post Office Tisra		
182	South Tisra (J-162)		South Tisra Colliery Company Private Limited, Post Office Jharia, Dhanbad.	6,68,000
183	Kalihan Jeenagora (J-164)	Post Office Khas Jeenagora.	K.M. Seal and Sons, 28, Raja K. L. Gpswami Street, Post Office Serampur, District Hooghly (West Bengal).	4,42,500
184	Kalihan Suratand (J-175)	Post Office Jharia		
185	New Jeenagora (J-166)	Post Office Khas Jeenagora.		
186	Central Jeenagora (J-167)			
187	North Bararee Jeenagora (J-170)		Khas Jeenagora Colliery Limited, 125, Biplabi Rash Bihari Basu Road, Calcutta-1.	8,99,000
188	Khas Jeenagora (J-171)			
189	Sri Jeenagora (J-173)	Post Office Khas Jeenagora.		
190	East Bararee (J-172)		Jeenagora East Bararee Colliery Company, Post Office Khas Jeenagora, Dhanbad.	3,05,500
191	New Suratand (J-174)	Post Office Jharia	Not available.	5,000

परियोजना पदाधिकारी
Project Officer
कुईरॉ कोलियरी
Kuya Colliery

Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
192	Nihari Patra (J-176)	Post Office Jharia	Nihari Patra Coal Company Limited, Post Office Jharia, Dhanbad.	5,000
193	North Burrakar Suratand (J-177)	Post Office Jharia	The New Standard Coal Company (Private) Limited, 27, Palace Court, 1, Kyd. Street, Calcutta-16.	142,500
194	North Burrakar Lodna (J-178)			
195	Lodna (J-179)			
196	Standard (J-180)	Post Office Bhaga	Standard Coal Company, Post Office Bhaga, Dhanbad.	24,800
197	Lodna (J-181)	Post Office Jheria	Lodna Colliery Company (1920) Limited, 6, Lyons Range, Calcutta.	81,80,000
198	Madhuban Lodna (J-182)	Post Office Jheria		
199	Begdigi (J-183)	Post Office Jheria		
200	Bhulanbararee (J-186)	Post Office Patherdih	Bhulanbararee Coal Company, 4, Clive, Row, Calcutta-1.	15,13,300
201	Lachmi (J-187)	Post Office Patherdih	Lachmi Coal Company, 31 Mullick Street, Calcutta.	76,500
202	Central Bhowrah (J-192)	Post Office Bhowrah	Central Bhowrah Coal Company, Post Office Jharia, Dhanbad.	0,000
203	Sitanala (J-193)	Post Office Bhojudih	Mohatta Brothers, 19, British Indian Street, Calcutta-1.	6,300
204	East Bhowra (J-194)	Post Office Patherdih	Shrimati Jyotsna Devi, Post Office Sitarampur, District Burdwan.	34,1,000
205	East Sowardth (J-195)	Post Office Patherdih	J.N. Supakar Brothers and Company, Post Office Patherdih, Dhanbad.	0,000
206	Patherdih (J-196)	Post Office Patherdih	Patherdih Sidamdi Colliery (Private) Limited, Post Office Patherdih, Dhanbad.	39,500
207	New Sudamdih (J-197)	Post Office Patherdih	New Sudamdih Colliery Company, Post Office Patherdih, Dhanbad.	1,97,000
208	Selected Patherdih (J-198)	Post Office Patherdih	Selected Patherdih Coal Company Limited, 12, Tarachand Dutta Street, Calcutta-1.	13,000
209	New Chasnalla (J-199)	Post Office Jharia	New Chasnalla Coal Concern, Post Office Jharia, Dhanbad.	5,000
210	Pure Chasnalla (J-200)	Post Office Patherdih	Pure Chasnalla Colliery Company 192, Cross Street, Calcutta-7.	49,800
211	Junkundar (R-1)	Post Office Chirkunda, District Dhanbad.	D. Mondal and Company Limited, Post Office Dighergath, District Burdwan, West Bengal.	1,56,000
212	Laikdih Deep (R-2)	Post Office Chirkunda, District Dhanbad.	Katras-Jharia Coal Company Limited, 8, Clive Row, Calcutta-1.	16,83,000
213	Victoria (R-4)	Post Office Kulti, District Burdwan.	New Birbhoom Coal Company Limited, 8, Clive Row, Calcutta-1.	23,33,300
214	Victoria West (R-5)			

NOTE:—The number specified, in brackets, against the name specified in the second column indicates the corresponding serial number of the coking coal mine in the First Schedule to the Coking Coal Mines (Emergency Provisions) Act, 1971 (64 of 1971). The abbreviations "EB" stand for "East Bokaro Coalfield", "J" stands for Jharia Coalfield; and "R" stand for "Rancegunge Coalfield."

परियोजना परामर्शिका
Project Engineer
कुईया कोलवरी
Kuya Colliery

Sl. No.	Name of the mine	Location of the mine	Name and address of the owners of the mine	Amount (in rupees)
1	2	3	4	5
192	Nihuri Patra (J-176)	Post Office Jharia	Nihuri Patra Coal Company Limited, Post Office Jharia, Dhanbad.	5,000
193	North Butrakar Suratand (J-177)	Post Office Jharia	The New Standard Coal Company (Private) Limited, 27, Palace Court, 1, Kyd. Street, Calcutta-16.	1,12,500
194	North Butrakar Lodna (J-178)			
195	Lodna (J-179)			
196	Standard (J-180)	Post Office Bhaga	Standard Coal Company, Post Office Bhaga, Dhanbad.	24,800
197	Lodna (J-181)	Post Office Jharia	Lodna Colliery Company (1920) Limited, 6, Lyons Range, Calcutta.	81,80,000
198	Madhaban Lodna (J-182)	Post Office Jharia		
199	Begdigi (J-183)			
200	Bhulanbararee (J-186)	Post Office Patherdih	Bhulanbararee Coal Company, 4, Clive, Row, Calcutta-1.	15,13,300
201	Lachmi (J-187)	Post Office Patherdih	Lachmi Coal Company, 31 Mullick Street, Calcutta.	76,500
202	Central Bhowrah (J-192)	Post Office Bhowrah	Central Bhowrah Coal Company, Post Office Jharia, Dhanbad.	0,000
203	Sitanala (J-193)	Post Office Bhojudih	Mohatta Brothers, 19, British Indian Street, Calcutta-1.	6,300
204	East Bhowra (J-194)	Post Office Patherdih	Shrimati Jyotsna Devi, Post Office Sitarampur, District Burdwan.	3,41,000
205	East Sowardth (J-195)	Post Office Patherdih	J.N. Supakar Brothers and Company, Post Office Patherdih, Dhanbad.	5,000
206	Patherdih (J-196)	Post Office Patherdih	Patherdih Sudamdih Colliery (Private) Limited, Post Office Patherdih, Dhanbad.	51,500
207	New Sudamdih (J-197)	Post Office Patherdih	New Sudamdih Colliery Company, Post Office Patherdih, Dhanbad.	1,91,000
208	Selected Patherdih (J-198)	Post Office Patherdih	Selected Patherdih Coal Company Limited, 12, Tarachand Dutta Street, Calcutta-1.	13,000
209	New Chasnalla (J-199)	Post Office Jharia	New Chasnalla Coal Concern, Post Office Jharia, Dhanbad.	5,000
210	Pure Chasnalla (J-200)	Post Office Patherdih	Pure Chasnalla Colliery Company 192, Cross Street, Calcutta-7.	49,200
211	Junkundar (R-1)	Post Office Chirkunda, District Dhanbad.	D. Mondal and Company Limited, Post Office Dishergarh, District Burdwan, West Bengal.	1,56,100
212	Laikdih Deep (R-2)	Post Office Chirkunda, District Dhanbad.	Katras-Jharia Coal Company Limited, 8, Clive Row, Calcutta-1.	16,53,000
213	Victoria (R-4)	Post Office Kulti, District Burdwan.	New Birbhum Coal Company Limited, 8, Clive Row, Calcutta-1.	23,39,000
214	Victoria West (R-5)			

NOTE :—The number specified, in brackets, against the name specified in the second column indicates the corresponding serial number of the coking coal mine in the First Schedule to the Coking Coal Mines (Emergency Provisions) Act, 1971 (64 of 1971). The abbreviations "ED" stand for "East Bokaro Coalfield", "J" stands for Jharia Coalfield; and "R" stand for "Raneegunge Coalfield."

परियोजना महाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

THE SECOND SCHEDULE

(See sections 5 and 11)

Sl. No.	Name of the coke oven plant	Location of the coke oven plant	Name and address of the owners of the coke oven plant	Amount (in rupees)
1	2	3	4	5
1.	Bararee Coke Plant	South Balliary-Kendwadih Colliery, Post Office Kusunda, District Dhanbad.	Bararee Coke Company Limited, 4, Clive Row, Calcutta-1.	21,42,000
2.	Bhowra Coke Plant	Bhowra South Colliery, Post Office Bhowra, District Dhanbad.	Messrs. Bhowra Coke Company, Battachary's House Luti Circular Road, Dhanbad.	11,76,000
3.	Bhulanbararee	Bhulanbararee Colliery, Post Office Patherdih, District Dhanbad.	Bararee Coke Company Limited, 4, Civil Row, Calcutta-1.	2,03,500
4.	Central Bhowra	Central Bhowra Colliery, Post Office Bhowra, District Dhanbad.	Central Bhowra Coal Company (Private) Limited, Post Office Jharia; and G.D. Kumar and Sons, Bastacolla, Post Office Dhansar, Dhanbad.	2,98,000
5.	Central Kooridih	Central Kooridih-Sonar-dih Colliery, Post Office Katrasgarh, Dhanbad.	Shivram Singh and Company (Private) Limited, Post Office Katrasgarh, District Dhanbad.	1,50,000
6.	Junkundar Valley Beehive Coke Plant.	Junkundar Colliery, Post Office Chirkunda, District Dhanbad.	D. Mondal and Company Limited Panchayat Road, Post Office Chirkunda, District Dhanbad.	1,08,000
7.	New Gobindpur	New Gobindpur Colliery, Post Office Sonardih, District Dhanbad.	Ghosh's Estate Private Limited, 33, Canning Street, Calcutta-1.	1,12,500
8.	New Standard Loda	New Standard Lodna Colliery, Post Office Jharia, District Dhanbad.	Messrs. Singh Sachdeva, Post Office Dhansar, Dhanbad.	1,05,000
9.	New Sudamdih	New Sudamdih Colliery, Post Office Patherdih, District Dhanbad.	Sanjive Coke Manufacturing Company, C/o H.D. Adjmera, Post Office Patherdih, Dhanbad.	3,21,000
10.	North Kujama	North Kujama Colliery, Post Office Jharia, District Dhanbad.	Beehive Hard Coke Manufacturing Company, Chowra Construction Company Private Limited, 111, Central Avenue, Calcutta.	2,57,500
11.	Ramkanaly	Ramkanaly Colliery, Post Office Katrasgarh, District Dhanbad.	Bijali Kanti Roy, Keshalpur House, Post Office, Katrasgarh, Dhanbad and M. C. Coal Company, Post Office Jharia, Dhanbad.	2,02,000
12.	Union Angarpathra	Union Angarpathra Colliery, Post Office Katrasgarh, District Dhanbad.	Satyadeo Singh Coal Company (Private) Limited, 138, Biplabi Rash Bihari Basu Road, Calcutta-1.	1,84,000

K. K. SUNDARAM,

Joint Secy. to the Govt. of India.

परियोजना प्रबंधिका
Project Manager
कुईया कोलियरी
Kuya Colliery



भारत का राजपत्र The Gazette of India

असाधारण

EXTRAORDINARY

भाग 2 — खण्ड 1

PART II — Section 1

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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इस भाग में चित्र पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
Separate paging is given to this Part in order that it may be filed as a separate compilation.

MINISTRY OF LAW, JUSTICE AND COMPANY AFFAIRS (Legislative Department)

New Delhi, the 8th December, 2000/Agrahayana 17, 1922 (Saka)

The following Act of Parliament received the assent of the President on the 8th December, 2000, and is hereby published for general information:—

THE COAL INDIA (REGULATION OF TRANSFERS AND VALIDATION) ACT, 2000

No. 45 of 2000

[8th December, 2000]

An Act to empower the Central Government to direct the transfer of the land, or of the rights in or over land or of the right, title and interest in relation to a coal mine, coking coal mine or coke oven plant, vested in the Coal India Limited or in a subsidiary company to any subsidiary company of Coal India Limited or any other subsidiary company and to validate certain transfers of such land or rights.

Be it enacted by Parliament in the Fifty-first Year of the Republic of India as follows:—

1. This Act may be called the Coal India (Regulation of Transfers and Validation) Act, 2000.

2. In this Act, unless the context otherwise requires,—

(a) "Coal India" means the Coal India Limited, a Government company incorporated under the Companies Act, 1956 having its registered office at Calcutta and includes its predecessor Government company, namely, the Coal Mines Authority Limited;

Short title.

Definitions.

1 of 1956.

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

(b) "subsidiary company" means the following subsidiary companies of Coal India, namely:—

(i) the Central Coal Fields Limited, Ranchi and includes its predecessor Government company, namely, the National Coal Development Corporation Limited, Ranchi;

(ii) the Bharat Coking Coal Limited, Dhanbad;

(iii) the Western Coal Fields Limited, Nagpur;

(iv) the Eastern Coal Fields Limited, Sanctoria;

(v) the Central Mine Planning and Design Institute Limited, Ranchi;

(vi) the South-Eastern Coal Fields Limited, Bilaspur;

(vii) the Northern Coal Fields Limited, Singrauli;

(viii) the Mahanadi Coal Fields Limited, Sambalpur.

and includes such other subsidiary company of Coal India as may be incorporated under the Companies Act, 1956 from time to time;

1 of 1956.

(c) words and expressions used herein and not defined but defined in the Coking Coal Mines (Nationalisation) Act, 1972 or the Coal Mines (Nationalisation) Act, 1973, shall have the meanings, respectively, assigned to them in those Acts.

36 of 1972.
26 of 1973.

Power of
Central
Government to
direct transfer
of land, rights,
title or interest.

3. (1) Notwithstanding anything contained in any other law for the time being in force, the Central Government may, if it is satisfied that a subsidiary company is willing to comply, or has complied, with such terms and conditions as that Government may think fit to impose, direct, by notification in the Official Gazette, that the land or rights in or over such land or the right, title and interest in relation to a coal mine, coking coal mine or a coke oven plant vested in the Coal India shall, instead of continuing to vest in the Coal India, vest in that subsidiary company or, where such land or right, title or interest vests in a subsidiary company, in another subsidiary company.

(2) Where the land or rights in or over such land or the right, title and interest in relation to a coal mine, coking coal mine or a coke oven plant vest in a subsidiary company under sub-section (1), such subsidiary company shall, on and from the date of such vesting, be deemed to have become the lessee in relation to such coal mine or coking coal mine as if a fresh mining lease in relation to such coal mine or coking coal mine had been granted to it under the Mineral Concession Rules, 1960 made under section 13 of the Mines and Minerals (Development and Regulation) Act, 1957 for the maximum period for which such lease could have been granted under those rules, and all the rights and liabilities of Coal India or, as the case may be, the subsidiary company in relation to such coal mine or coking coal mine shall, on and from the date of such vesting, be deemed to have become the rights and liabilities, respectively, of subsidiary company first-mentioned.

07

Validation of
certain
transfers.

4. A subsidiary company which was operating, or was in control of, any coal mine, coking coal mine, or coke oven plant which was vested in the Coal India or any other subsidiary company immediately before the commencement of this Act, shall be deemed to have been vested with the land or rights in or over such land or the right, title and interest in relation to such coal mine, coking coal mine or coke oven plant and such vesting shall be deemed to have been valid and effective at all material times as if a direction had been made by the Central Government under sub-section (1) of section 3 and accordingly no

67 of 1957.

परियोजना पदाधिकारी
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suit or other proceeding shall be instituted, maintained or continued in any court on the ground that such subsidiary company was not competent to operate or control such coal mine, coking coal mine or coke oven plant.

SUBHASH C. JAIN,
Secy. to the Govt. of India.

17/2

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

X



COAL INDIA LIMITED
(A Maharatna Company)
Legal Department
6, Lyons Range, Kolkata
Telefax : 033 22306267
Email : legal@coalindia.in

Regd. Office : 10 Netaji Subhas
Road, Kolkata 700 016
CIN-L23109WB1973GO102614

Date : 19.07.2015

Ref. No. CIL : Legal/ 1161

The HOD (Legal)
FCL / BCCL / CCL / SECL / MCL /
NCL / WCL / CMPDIL

General Manager
N.E.C., CIL

Dear Sirs,

Sub :- Opinion of Sri Kaushik Chanda, Additional Solicitor General for India on the issue of Renewal of Mining Leases which had been in the control of Coal India subsidiaries by virtue of the Coal Mines Nationalisation Acts 1972 / 1973

BCCL was being goaded by the Government of Jharkhand since long for getting the mining leases, that had come to its control since nationalisation, renewed according to the provisions of Mineral Concessional Rules, 1960 since, according to the said State Government, the vested leases stood expired with the expiry of 30 years from the date of Nationalisation.

BCCL referred the issue to CIL for ascertaining the legal position. The matter was deliberated upon at different levels. Finally, the matter was referred to Sri Kaushik Chanda, Additional Solicitor General for India for legal opinion.

The above named learned Solicitor General by his opinion, dated 23rd July 2015 has clarified that the aforesaid leases supposed to have expired in 2002 (Coking Coal Mining Leases) and 2003 (Non-Coking Coal Mining Leases) have not in fact, expired because of enforcement of the Coal

Leases Act, 1972 and valid till the date of expiry of the said

Handwritten signature

परियोजना पदाधिकारी
Project Officer
कुईयो कोलिया
Kuya Colliery

कौशिक चन्दा

Kausik Chandra



महान्याय-सल्लिखिका

भारत

JOINT SOLICITOR GENERAL
OF INDIA

Office

Allahabad High Court, Allahabad

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Telex : 983108182

been granted under Section 4 of the Coal India (Regulation of Transfer and Validation) Act, 2000?

4. Generally as to the case.

The backdrop of the case in short may be summarised as follows:

The Mines and Minerals (Development & Regulations) Act, 1957 was enacted to provide for the development and regulations of mines and minerals under the control of the Union.

As per Section 8 of the said Act mining lease could be granted for a maximum period of 30 years.

By virtue of the Coking Coal Mines (Nationalisation Act, 1972) and the Coal Mines (Nationalisation Act, 1973) the coal mines industries were taken over from the private coal mines owners and the same stood vested in Central Government.

Subsequently Central Government by different notifications directed vesting of all rights in the existing mining leases in favour of Coal Mine Authority Limited which was subsequently renamed as Coal India Limited.

Coal India Limited used to carry out the mining activities through its subsidiary companies located in the different states. Bharat Coking Coal Limited is a subsidiary company of Coal India Ltd.

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Kuyari Colliery

कौशिक इन्दा

Kaushik Inda



महाराष्ट्र

भारत

MINISTRY OF COAL
GOVERNMENT OF INDIA

Office

Minister, Coal India High Commission

Phone: 033 2248 1000

Telex: 983108

OPINION

Ex-parte: Coal India Limited

Re: Opinion on renewal of mining leases by Bhaya
Coking Coal Limited vested with it through
Coal India Limited by virtue of the Coking Coal
Mines (Nationalization) Act, 1972 and the Coal
Mines (Nationalization) Act, 1973.

The following questions have been formulated by the querist for answer.

Questions

1. Whether CIL and/or its subsidiary BCCL having not yet obtained the renewal of lease and/or fresh lease is mining without authority of law or legal sanction?
2. Whether Section 4 of the Coal India (Regulation of Transfer and Validation) Act, 2000 has granted fresh leases in favour of CIL and its subsidiary BCCL for the maximum period for which fresh lease could have been granted under the Rule of 1960 i.e. till 7th December 2030?
3. Whether authorization under Section 31 of the Mines and Minerals (Development and Regulation) Act, 1957 is required if fresh lease has

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भारत महा-सालिस्कि
भारत

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OF INDIA

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High Court
033-2248498
983108182

been granted under Section 4 of the Coal India (Regulation of Transfer and Validation) Act, 2000?

4. Generally as to the case.

The backdrop of the case in short may be summarised as follows:

The Mines and Minerals (Development & Regulations) Act, 1957 was enacted to provide for the development and regulations of mines and minerals under the control of the Union.

As per Section 8 of the said Act mining lease could be granted for a maximum period of 30 years.

By virtue of the Coking Coal Mines (Nationalisation) Act, 1972 and the Coal Mines (Nationalisation) Act, 1973 the coal mines industries were taken over from the private coal mines owners and the same stood vested in Central Government.

Subsequently Central Government by different notifications directed vesting of all rights in the existing mining leases in favour of Coal Mine Authority Limited which was subsequently renamed as Coal India Limited.

Coal India Limited used to carry out the mining activities through its subsidiary companies located in the different states. Bharat Coking Coal Limited is a subsidiary company of Coal India Ltd.

DS

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कौशिक चन्द

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Calcutta High

Tel / Fax 033 22

Mobile 983108

As the maximum lease period was 30 years, the mining leases under the control of Coal India Limited and its subsidiaries in respect of coking coal was due to expire in 2007 and in case of non coking coal it was due to expire in the year 2003.

The BCCI applied for the renewal of lease in terms of the Minerals Concessional Rules, 1960 only in the year 2005. Series of correspondence were made with the concerned authorities for such renewal but as on date the lease has not been renewed.

In the meantime, the Coal India (Regulation of Transferred Validation) Act, 2000 (hereinafter referred to as the "said act") came into operation with effect from December 08, 2000.

The answers to the queries raised require to be traced out from the import of the said act.

Section 3 & 4 of the said Act is set out hereunder:

3(1) Notwithstanding anything contained in any other law for the time being in force, the Central Government may, if it is satisfied that a subsidiary company is willing to comply, or has complied, with such terms and conditions as that Government may think fit to impose, by notification in the Official Gazette, that the land or rights in or over such land or the right, title and interest in relation to all coal mine, coking coal mine or a coke oven plant vested in the Coal India shall, instead of

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Kaushik Chandra



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...vesting to vest in the Coal India, or in that subsidiary company or
where such land or right, title or interest vests in a subsidiary company,
or another subsidiary company

3(2). Where the land or rights in or over such land or the right, title and
interest in relation to a coal mine, coking coal mine or a coke oven plant
vest in a subsidiary company under sub-section (1), such subsidiary
company shall, on and from the date of such vesting, be deemed to have
become the lessee in relation to such coal mine or coking coal mine had
been granted to it under the Mineral Concession Rules, 1960 made under
section 13 of the Mines and Minerals (Development and Regulation) Act,
1957 for the maximum period for which such lease could have been
granted under those rules and all the rights and liabilities of Coal India
or, as the case may be, the subsidiary company in relation to such coal
mine or coking coal mine shall, on and from the date of such vesting,
be deemed to have become the rights and liabilities, respectively, of
the subsidiary company first-mentioned

4. A subsidiary company which was operating, or was in control of
any coal mine, coking coal mine, or coke oven plant which was vested in
the Coal India or any other subsidiary company immediately before the
commencement of this Act, shall be deemed to have been vested with
the land or rights in or over such land or the right, title and interest
in relation to such coal mine, coking coal mine or coke oven plant and shall

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अपर महा

11/2/20

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... shall be deemed to have been valid and effective at all material times, if a direction had been made by the Central Government under subsection (1) of section 3 and accordingly no suit or other proceedings shall be instituted, maintained or continued in any court on the ground that such subsidiary company was not competent to operate or control such coal mine, coking coal mine or coke oven plant.

The aforesaid two sections are incorporated with two folds object -

(a) To empower Central Government to a fresh transfer rights/interests in relation to a Coal Mine to a subsidiary company by notification in Official Gazette [Section 3(1)] and

(b) to validate transfer rights or interests in relation to a Coal Mine by deeming provision in favour of a subsidiary company which was operating in control of any Coal Mine vested in Coal India before the commencement of the said act (Section 4).

Section 3(2) of the said Act deals with the period of lease which says that from the date of vesting the subsidiary company shall be deemed to have become lessee as if a fresh mining lease has been granted to it under Mines Concession Rules, 1960 for a maximum period. It may be reiterated that in the present case the said maximum period is 30 years by virtue of Section 3(2) Mines and Minerals (Development & Regulations) Act, 1957

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The period as mentioned in Section 3(1) of the said Act is also applicable to the lease covered under Section 4 of the said Act.

BCCL being a subsidiary company which was operating and in control of coal mines before the commencement of the said act is to be covered under Section 4 of the said Act.

Therefore BCCL, by virtue of the Section 4 of the said Act read with Section 3(1) of the said Act shall be deemed to have been granted a fresh lease for a period of 30 years from the date of commencement of the said Act i.e. December 8, 2000.

In view of the aforesaid the application for renewal of lease made by the BCCL in the year 2005 and the steps taken in furtherance thereafter becomes inconsequential as the tenure of the lease has further been automatically extended by operation of the said act.

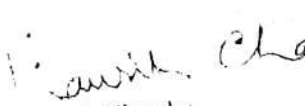
In view of the discussion of the aforesaid, my answers are as follows:

Question No.1 is answered in negative.

Question No.2 is answered in affirmative.

Question No.3 is answered in negative.

Dated 23rd July, 2015


(Kausik Chanda)
Additional Solicitor General of India


परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

6. उत्पादन-शून्य उत्पादन में घटने बढ़ने का कारण दें, यदि कोई हो, वर्ष के दौरान पिछले वर्ष की तुलना में।

क)

ख).....

7. पूर्व खान मूल्य वार श्रेणी में घटने बढ़ने का कारण दें, यदि कोई हो, वर्ष के दौरान पिछले वर्ष की तुलना में।

क)

ख).....

स्थान

हस्ताक्षर

तारीख

पूरा नाम

पदनाम: स्वामी/अभिकर्ता/खान इंजीनियर/प्रबंधक"

[फा. सं. 12012/2/2021-पी एस 1]

बी.पी. पति, संयुक्त सचिव

टिप्पणी: मूल नियम दिनांक 23 नवंबर, 1960 की संख्या जी.एस.आर. 1398 के माध्यम से भारत के राजपत्र, भाग II, खंड 3, उप-खंड (i) में प्रकाशित किए थे और दिनांक 29 मई, 2020 की संख्या जी.एस.आर. 331(अ) के जरिए अंतिम बार संशोधित किए गए थे।

स्पष्टीकारक ज्ञापन :

केन्द्रीय सरकार, खान और खनिज (विकास और विनियमन) संशोधन अधिनियम, 2021 (2021 का 16) के माध्यम से अंतःस्थापित खान और खनिज (विकास और विनियमन) अधिनियम, 1957 की धारा 8 की उपधारा (4) को तदनुसार विद्यमान खान के पट्टों की अवधि को विहित करने के लिए सरकारी कंपनी या निगम के मामलों में खान के पट्टों की अवधि को विस्तार करने के लिए सशक्त करती है, विद्यमान पट्टों की अवधि को नियम 24ग की उपधारा (2) में विहित किया गया है और खान के पट्टों के नवीकरण के लिए लंबित आवेदनों को नियम 24ग के उपनियम (5) में खान के पट्टों की अवधि के विस्तार के लिए किया गया आवेदन समझा जाएगा। यह प्रमाणित किया जाता है कि किसी भी व्यक्ति पर इन नियमों के माध्यम से भूतलक्षी प्रभाव देने से प्रतिकूल प्रभाव नहीं पड़ेगा।

MINISTRY OF COAL

NOTIFICATION

New Delhi, the 1st October, 2021

G.S.R. 717(E).—In exercise of powers conferred by Section 13 of the Mines and Minerals Development and Regulation) Act, 1957 (67 of 1957), the Central Government hereby makes the following rules further to amend the Mineral Concession Rules, 1960, namely:-

1. Short title and commencement.—(1) These rules may be called the Mineral Concession (Amendment) Rules, 2021.

(2) Save as otherwise provided in these rules they shall come into force on the date of their publication in Gazette of India.

2. In the Mineral Concession Rules, 1960, (hereinafter referred to as the principal rules), in rule 2, in sub-rule (1), after clause (vii), the following clause shall be inserted, namely:-

“(viii) “run-of-mine” means the raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralised zone of a lease area;”.

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3. In the principal rules, after rule 24B the following rule shall be inserted, namely:-

“24C. Period of mining lease granted to Government companies or corporations.—

- (1) All mining leases granted on or after the commencement of the Mineral Concession (Amendment) Rules, 2021 to a Government company or corporation for coal or lignite shall be for a period of fifty years.
- (2) All subsisting mining leases vested or granted to a Government company or corporation before commencement of the Mineral Concession (Amendment) Rules, 2021 for coal or lignite shall be deemed to have been granted for fifty years or till 31st March 2030, whichever is later.
- (3) The State Government, upon an application made to it in this behalf by the Government company or corporation at least three months prior to the expiry of the mining lease, shall extend the period of the mining lease for a further period of twenty years at a time:
Provided that the State Government may condone the delay in application for extension made after the prescribed time limit:
Provided further that no extension of period of mining lease shall be granted to a Government company or corporation that has been selected through auction.
- (4) If an application for extension of mining lease made within the time mentioned in sub-rule (3) is not disposed of by the State Government before the date of expiry of the lease, the period of that lease shall be deemed to have been extended till the State Government passes an order on the same.
- (5) All applications made by a Government company or corporation for renewal of mining lease which were pending as on the date of commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2021 (16 of 2021) shall be deemed to be applications for extension of the period of the mining lease and shall be disposed of in accordance with the provisions of sub-rule (3).”

4. In the principal rules, after rule 27, the following rule shall be inserted, namely:-

“27A. Manner of sale of coal or lignite by the lessee of a captive mine.— (1) Any lessee may, where coal or lignite is used for captive purpose, sell coal or lignite up to such per cent. of the total coal or lignite produced in a financial year, as allowed under sub-section (5) of section 8, after meeting the requirement of the end use plant linked with the mine.

Explanation 1.- For the purpose of this rule it is clarified that the requirement of the end use plant linked with the mine for a financial year shall be the actual quantity of coal or lignite consumed in the said plant in that financial year or a part thereof.

Explanation 2.- For the purpose of this rule, quantity of coal or lignite produced, sold, utilised in linked end-use plant and the payment of additional amount on the quantity sold shall be assessed on run-of-mine basis.

Explanation 3.- Sale of any tailings, rejects or middlings shall not be restricted by this rule.

(2) For the quantity of coal or lignite sold in accordance with sub-section (5) of section 8, the lessee shall pay to the State Government, at the time of payment of royalty, an additional amount as specified in the Sixth Schedule of the Act, which shall be in addition to royalty or payment to the District Mineral Foundation and National Mineral Exploration Trust or any other statutory payment or payment specified in the tender document or the auction premium, wherever applicable.

(3) Within one month of the end of a financial year, for sale made in the previous financial year, the lessee shall submit to the Nominated Authority, Ministry of Coal, Coal Controller's Organisation and to the State Government, a self-declaration in Form R.

(4) Sale of coal shall not be allowed from the coal mines allotted to a company or corporation that has been awarded a power project on the basis of competitive bid for tariff (including Ultra Mega Power Projects).”

Explanation.-For the purpose of this rule, it is clarified that the provision for sale of coal or lignite as prescribed in this rule shall not affect the eligibility conditions and efficiency parameters prescribed in the respective agreements entered into by the lessee with the Central Government.


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5. In the principal rules, for rule 28, the following rule shall be substituted, namely:-

“28. Lapsing of Leases. — (1) Where production and dispatch has not commenced within a period of two years from the date of execution of the mining lease or is discontinued for a continuous period of two years after commencement of production or dispatch, the mining lease shall lapse on the expiry of the period of two years from the date of execution of the lease or as the case may be, discontinuance of the production and dispatch.

(2) The lapsing of the mining lease shall be recorded through an order issued by the State Government and shall also be communicated to the lessee.

(3) Where a lessee is unable to commence the production and dispatch within a period of two years from the date of execution of the mining lease or discontinuation of production and dispatch for reasons beyond his control, he may submit an application to the State Government, requesting for an extension of such period of two years by a further period not exceeding one year, explaining the reasons for the same, at least three months before the expiry of such period of two years:

Provided where the lessee has failed to make the application within the time stipulated above, the lease shall lapse on expiry of the period of two years.

(4) Application made under sub-rule (3) shall specify—

- (a) the reasons on account of which it will not be possible for the lessee to undertake mining operations or continue production and dispatch;
- (b) the manner in which such reasons are beyond the control of the lessee;
- (c) the steps that have been taken by the lessee to mitigate the impact of such reasons; and
- (d) the period of extension sought.

(5) Every application under sub-rule (3) shall be accompanied by a fee of two hundred rupees.

(6) The State Government shall, after examining the application, pass an order, within a period of three months from the date of receipt of the application made under sub-rule (3) or the date on which the mining lease would have otherwise lapsed, whichever is earlier, either granting or rejecting such request:

Provided that such mining lease shall lapse on failure to undertake production and dispatch or inability to continue production and dispatch within the extended period of one year:

Provided further that such extension shall not be granted for more than once during the entire period of lease.

(7) The State Government shall communicate to the Coal Controller's Organisation, Nominated Authority and Ministry of Coal the order recorded under sub-rule (2) or issued under sub-rule (6) within fifteen days of recording or issuing of such order.”

6. In the principal rules, rule 28A shall be omitted.

7. In the principal rules, for rule 64B, the following rule shall be substituted, namely:-

“64B. Charging and instance of payment of royalty in case of minerals subjected to processing.— The royalty shall be charged on run-of-mine coal or lignite irrespective of its processing within or outside the leased area:

Provided that the royalty shall be payable at the time of dispatch from or consumption within the leased area.”

8. In the principal rules, rule 64C shall be omitted.

9. In the principal rules, in Schedule I, after Form Q, the following Form shall be inserted, namely:-


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 Project Officer
 कुईयाँ कोलियरी
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"Form R

(Rule 27A (3))

Self-declaration

For the financial year 1st April 20 ____ to 31st March 20 ____

ANNUAL RETURN

To

- (i) The Nominated Authority
Ministry of Coal
Shastri Bhawan, New Delhi
- (ii) The Coal Controller
Office of the Coal Controller's Organisation
1, Council House Street,
Lal Dighi, BBD Bagh
Kolkata, West Bengal-700001
- (iii) State Government

(PRODUCTION, DISPATCHES AND STOCKS OF COAL/LIGNITE)
(Unit of Quantity in Tonnes)

1. Details of Mine:

(a)	Registration number allotted by Indian Bureau of Mines (to give registration number of the Lessee-Owner)	
(b)	Mine Code (allotted by Indian Bureau of Mines)	
(c)	Name of the Mineral (Coal OR Lignite):	
(d)	Name of Mine	

2. Location of the Mine:

Village	
Post Office	
Tahsil-Taluk	
District	
State	
PIN Code	
Fax No:	E-mail:
Phone No:	Mobile:

3. Name and address of Lessee-Owner (along with fax no. and e-mail):

(a)	Name of Lessee-Owner	
(b)	Address	
(c)	District	
(d)	State	
(e)	PIN Code	

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रियल टाइम मॉनिटरिंग
Proj-
सर्विस
Data Centre

(f)	Fax No.:	E-mail:
(g)	Phone No:	Mobile:
(h)	Registered Office of the Lessee	
(i)	Director in-charge	
(j)	Agent:	
(k)	Manager:	

4. Yearly Grade-wise Production, EUP Requirement, EUP Utilisation, Sale etc.

Lignite/ Grades of coal	Opening stock at pit-head (Carried Forward)	Production	EUP Requirement	EUP Utilisation	Quantity Sold	Closing stock at pit-head
Grand Total:						

5. Sales- Dispatches effected for Domestic Purposes and for Exports:

Lignite/Grade of coal	Nature of Dispatch (Indicate whether Domestic Sale or Domestic Transfer or Captive consumption or Export)	For Domestic Purposes				For export		
		Registration number/ GSTN of the buyer/ consignee ##	Consignee name##	Quantity	Sale value (₹)	Country	Quantity	F.O.B Value (₹)
Grand Total:								

To indicate separately if more than one buyer.

NOTE: - Mine owners are required to substantiate domestic sale value- FOB value for each grade of coal or lignite quoted above with copy of invoices (not to be submitted with the return; to be produced whenever required).

6. Give reasons for increase-decrease in production-nil production, if any, during the year compared to the previous year.

a)

b)

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Project Officer
कुईयों कोलियरी
Kuya Colliery

7. Give reasons for increase-decrease in grade wise ex-mine price, if any, during the year compared to the previous year.

a)

b)

Place:.....

Signature.....

Date:.....

Name in Full.....

Designation: Owner/Agent/Mining Engineer/Manager".

[F. No. 12012/2/2021-PS1]

BHABANI PRASAD PATI, Jt. Secy.

Note : The principal rules were published in the Gazette of India, Part II, Section 3, Sub-section (i) vide number G.S.R. 1398, dated the 23rd November, 1960 and lastly amended vide number G.S.R 331(E) dated the 29th May, 2020.

Explanatory Memorandum

Sub-section (4) of Section 8 of the Mines and Minerals (Development and Regulation) Act, 1957 inserted through the Mines and Minerals (Development and Regulation) Amendment Act, 2021 (16 of 2021) empowers the Central Government to prescribe the period of existing mining leases and to extend the period of mining leases in case of Government companies or corporations. Accordingly, the period of existing mining leases has been prescribed in sub-rule (2) of rule 24C and the pending applications for renewal of mining leases shall be deemed to be applications for extension of period of mining lease in sub-rule (5) of rule 24C. It is certified that no person is being adversely affected by granting retrospective effect through these rules.

प्रतिनिधि
H. K. K. K.
कुशा
Kuya

Office of the General Manager, Bastacolla Area, Dhanbad-828111

UNDERTAKING TO BEAR THE COST OF PLANTATION

BCCL undertakes to bear the cost of plantation, if any, for forest land diversion in Kuya Colliery, BCCL.


Project officer
Kuya Colliery
परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

Annexure - 7

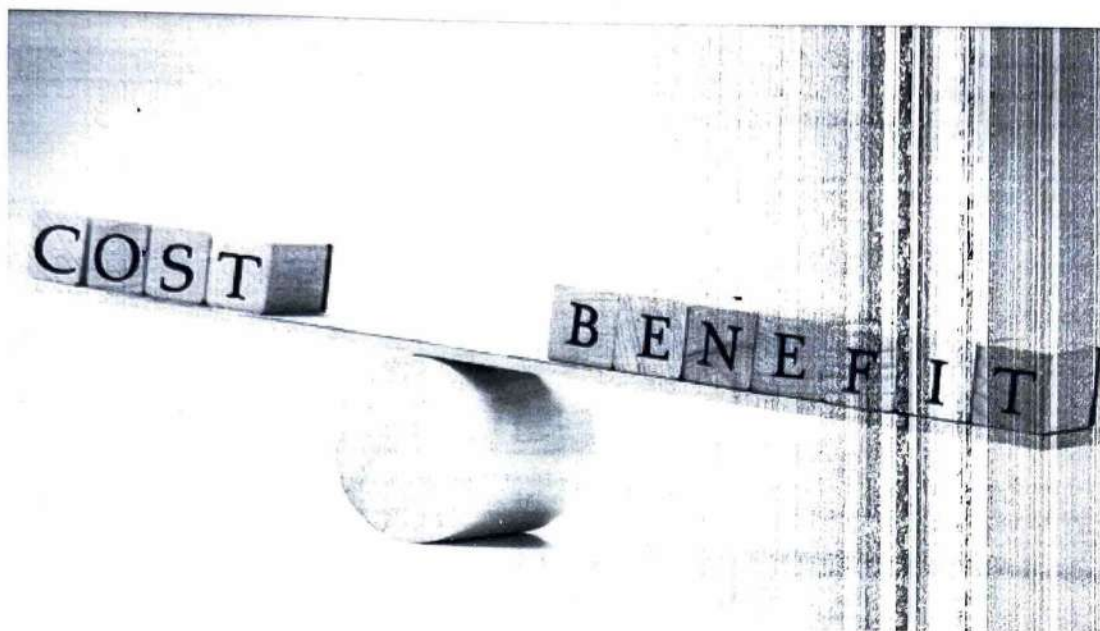
Office of the General Manager, Bastacolla Area, Dhanbad-828111

**UNDERTAKING FOR SITE SPECIFIC WILDLIFE/BIODIVERSITY
CONSERVATION PLAN**

BCCL undertakes to bear the cost for site specific wildlife/Biodiversity conservation plan if any imposed by MOEF&CC, Govt. of India for forest land diversion in Kuya Colliery, BCCL.



Project officer
Kuya Colliery
परियोजना पदाधिकारी
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COST BENEFIT ANALYSIS REPORT

[as per MoEFCC Guideline 7-69/2011-FC(Pt.) dtd. 01 August, 2017]



Bharat Coking Coal Limited
(A Miniratna Company)

Kuya Colliery (16.49 Ha)


परियोजना पदाधिकारी
Project Officer
कुईयों कोलियरी
Kuya Colliery

Introduction:

Kuya Colliery is under operation prior to nationalization by ex colliery owners. The Kuya project having leasehold area of the mine is 340.50 Ha of which 117.51 Ha (101.02 Ha already granted) Notified forest land falls in quarriable zone. The application has been done for remaining notified Forest Land i.e. 16.49 Ha. The area is covered under the toposheet no. (F45C5)73 1/5. The Environmental clearance of Kuya colliery granted vide letter no J-11015/298/2010-IA.II(M) in cluster VIII. Exploration for the reserve of coal in the said project was conducted by CMPDI, a subsidiary of coal India Ltd. Total coal reserve was found in 19.024MT(Reserve in Forest Land- 2.154MT & Non forest Land- 16.87 MT).

Communication:

Name of Project Officer	:	Devendra Prasad Singh
Address	:	Office of the Project Officer, Kuya Colliery
Mobile no.	:	6287699754
Email Address	:	amenv.bstcla.bcccl@coalindia.in

Purpose for Cost benefit analysis :

Cost benefit report is required for making on line application as per part 1,G. The report has been prepared on the basis of MoEFCC circular no.7-69/2011-FC(Pt.)dtd. 01 August, 2017.

Table 1: Breakup of Land(Ha)					
Area	Name of Project	Area as per Mine Plan	Total Forest Area in leasehold	Forest Land as per Application	Notified Forest already granted
Bastacolla	Kuya	340.50	117.51	16.49	101.02

The nature of forest land for which application for diversion of forest land to be applied at Kuya Colliery (16.49 Ha) falls in Class III DF forest. As such Rate of NPV comes out as Rs 12,28,590/ Ha for 16.49 Ha of the proposed forest land for diversion.

Table 2: Calculation rate for NPV in respect of Kuya Colliery		
Description	Amount in Rs.	Amount in Rs. Lakhs
Total NPV @Rs. 12,28,590 per Ha for 16.49 Ha of the forest land proposed for diversion	12,28,590*16.49 = 2,02,59,449.1/-	202.59
10% NPV Value	20,25,944.91/-	20.259
30% NPV Value	60,77,834.73/-	60.778
50% NPV Value	1,01,29,724.55/-	101.29

Table 3: Rate of land as per circle rate		
Name of Village	Forest Land (in Ha)	Circle rate per Decimal (in Rs)
Kuya	16.49 Ha	4,81,866

Total circle rate of 16.49 Ha= **Rs. 19,634.49 Lakhs**

Other conversion factor 100 decimal = 1 acre; 1 Ha = 2.471 Acre = 247.1 Decimal

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Kuya Colliery

CALCULATION AS PER MOEFCC CIRCULAR NO. 7-69/2011-FC(PT.) Ddt. 01 AUGUST, 2017.

I. Estimation of cost for forest diversion

1. Ecosystem services losses due to proposed forest diversion

Economic value of loss of ecosystem services due to diversion of forest = Net present value (NPV) of the forest land being diverted as per prescribed by the Central Government (MoEF&CC).

As the Forest land proposed does not fall in National park & Wild life sanctuary

Ecosystem services losses due to proposed forest diversion for 16.49 Ha = **Rs. 12,28,590*** 16.49 = 202.59 Lakhs (Ref Table 2).

2. Loss of animal husbandry productivity, including loss of fodder

No. of PAFs = 0

Assuming no. of animal husbandry as 6 Factor = 60

Loss of animal husbandry productivity, including loss of fodder = $0 \times 6 \times 365 \times 60$ = Rs. 0 Lakhs

10% of NPV = **Rs. 20.259 lakhs** (ref Table 2)

Since 10% of NPV is more, thus as per guideline

Loss of animal husbandry productivity, including loss of fodder = **Rs. 20.259 lakhs**

3. Cost of human resettlement as per R&R Plan = Rs 0 Lakhs

4. Loss of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric line, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project = Rs. 0.00

5. Possession value of forest land diverted

Amount as per Circle rate of adjoining area = **Rs. 19,634.49 Lakhs** (Ref Table 3)

30% NPV = **Rs. 60.778 Lakhs** (Ref Table 2)

Since circle rate of adjoining area is more than NPV paid therefore as per guideline, Possession value of forest land diverted = **Rs 19634.49 Lakhs**

6. Cost of suffering of oustees is Nil as:

No. Of Outsees = No. of PAFs = Nil

7. Habitat Fragmentation cost

Cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule (Ref Circular MoEF)

50 % of NPV = **Rs. 101.29 Lakhs** (Ref table 2)

8. Compensatory afforestation and soil & moisture conservation cost: 225.14

Rate of Compensatory afforestation = Rs. 350000 / Ha

Forest land = 16.49 Ha, Therefore CA land = 33 Ha

Cost of Compensatory Afforestation = **Rs. 115.5 Lakhs**

Soil Conservation cost = 0.5% of the project cost = 0.005×4385.67 Lakh = **Rs 21.928 Lakh**

Cost of Wild life Management Plan = 2% of the project cost = 0.02×4385.67 Lakh = **Rs 87.713 Lakh**

Total estimated Cost due to diversion of forest (in Rs. Lakhs) = **20,183.77 Lakhs**


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Kuya Colliery

II. Estimating benefits of forest – diversion in CBA

1. Increase in productively attribute to the specific project

Productively attribute = Profit per tonne x mineable reserve
= $723 \times 7.783 \times 10^6$ = Rs 56271.09 lakh

2. Benefits to economy due to specific project: **Rs 78101.3098 Lakhs**

A. CSR cost = 2 % of Profit = $0.02 \times \text{Rs } 56271.09 \text{ Lakh}$ = Rs. 1125.4218 Lakh

B. Royalty to the exchequer (15% of Sales Value) = Sale price x 7.783 MT x 15 %
= $2687 \times 7.783 \times 1000000 \times 15/100$ = Rs 31369.381 Lakhs

C. District Mining Fund (DMF) = 30 % of Royalty = Rs. 9410.81 Lakhs

D. National Mineral fund = 2 % of Royalty = Rs. 627.387 Lakh

E. Coal Cess/Clean Energy cess = Rs 400/T x 7.783T x 1000000 = Rs. 31132 Lakh

F. Forest transit fee (Rs 57/tonnee) = Rs 57 x 7.783 x 1000000 = 4436.31 Lakh

Total Benefit = A+B+C+D+E+F = Rs. 78101.3098 Lakhs

3. No. of population benefitted due to specific project

Direct employment = 836

Indirect Employment = 250

Considering avg. family size 5, then no. of Population benefitted = $1086 \times 5 = 5430$

4. Economic benefits due to direct and indirect employment due to project

A. For indirect employment generated for= 250 people

Avg. days of Working (as in Jharkhand) = 200 days

Rate of unskilled manpower = Rs. 346/- day

Life of mine = 30 years

Economic benefits due to indirect employment = Rs. 5190 Lakhs

B. For direct employment = 836 people (EMS-Rs 5412 /Day)

Economic benefits due to direct employment = $836 \times 300 \times 30 \times 5412$ = Rs. 4,07,198.88 Lakhs

Economic benefits due to of direct and indirect employment due to project = A+B = **Rs. 412388.88 lakhs**

5. Economic benefits due to compensatory afforestation

CA Land = $16.49 \times 2 = 33 \text{ Ha}$

Class of degraded forest land supposed to change from LDF to MDF

A. Thus change in benefits (as per NPV) [@ Rs (12,28,590 – 9,57,780) lakhs/ha x 33 Ha = 89.367 Lakhs

B. Economic value of carbon storage:

Change in economic value per Ha @ Rs (270040 – 95721) = Rs. 174319 = Rs. 1.74319 [Lakhs] for 60yrs.

Thus economic value for 33 Ha for 50 yrs = Rs. 47.93 Lakhs

Total Economic benefits due to compensatory afforestation = (A+B) = **Rs 137.297 Lakhs**

Kuya Colliery (16.49 Ha)

परियोजना पदाधिकारी
Project Officer
कुईर्यो कोलियरी
Kuya Colliery

Table 4: Estimation of cost of forest diversion (as per table B of guidelines)		
Sl No	Parameter	Result(in Lakhs)
1	Ecosystem services losses due to proposed forest diversion	202.59
2	Loss of animal husbandry productivity, including loss of fodder	20.259
3	Cost of human resettlement	0
4	Loss of public facilities and administrative infrastructure (Roads, buildings, schools, dispensaries, electric line, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project	0
5	Possession value of forest land diverted	19634.49
6	Cost of suffering of oustees	0
7	Habitat Fragmentation cost	101.29
8	Compensatory afforestation and soil & moisture conservation cost	225.14
	Total Loss in lakhs	20183.77

Table 5: Existing guidelines for estimating benefits of forest – diversion in CBA (As per Table C of Guidelines)		
Sl No	Parameters	Result(in Lakhs)
1	Increase in productivity attribute to the specific project	56271.09
2	Benefits to economy due to specific project	78101.3098
3	No of population benefitted due to specific project	5430
4	Economic benefits due to of direct and indirect employment due to project	412388.88
5	Economic benefits due to compensatory afforestation	137.297
6	Total Benefit (2+4+5) in Lakhs	4,90,627.487

Cost to benefit ratio = $20183.77/4,90,627.487 = 1:0.041138=24.308$

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