



BHARAT COKING COAL LIMITED (A Subsidiary of Coal India Limited) OFFICER OF THE GENERAL MANAGER BLOCK-II AREA,PO-NAWAGARAH,DHANBAD-828306 CIN:U10101JH1972GO1000918 Tel. No-0326-2393108/Fax No-0326-2393108

Ref: GM/B-II/14-15/ 63

To, Director (S) Ministry of Environment & Forest Govt. of India Eastern Region Office A/3 Chandrashekharpur, Bhubneshwar- 751023 Date: 05.12.14

Sub: Six monthly reports on implementation of Environmental measures for the period from Apr.14 to Sept. 2014 in respect of Cluster -II group of mines.

EC order no. J/11015/35/2011- IA.II(M) dt. 06/02/2013

Dear Sir,

Kindly find enclosed herewith the Six monthly report on implementation of Environmental measures for the period from Apr.14 to Sept. 2014 in respect of Cluster -II group

Hope you will find the same in order.

Yours faithfully,

General Manager Block-II Area

Encl: as above

C.C to

1. Dr.Sunita Aulock, Director, 1A monitoring cell Paryavaran Bhawan CGO Complex, New Delhi-110003

C2. G.M(Env.) BCCL Koyla Bhawan, Dhanbad.

3. Nodal incharge(Env.) Barora Area.

4. Nodal incharge(Env.) Block-II Area.

(UI.U4.14 TO 30.09.14)

	A Specific Conditions by MOEF:	
i		Compliance
. 7	The maximum production by opencust in shall not exceed by	
- 1	shall not exceed beyond that for u	ining The production from the Cluster is within limit which environment clearance has been been
- 1		which environment clearance has been granted.
1	mine of Chuster- II	ne 5
1		
-		
ii	The measure to identify in the Environmental Plan	
1.	Cluster- II groups of mine and the conditions gives this environmental clearance letter about 1	for Master Plan is dovetailed with environment
1	this environmental alcome that the conditions gives	in clearance condition.
	to the implementation of the Jharia Action Plan.	iled
	Plan.	
iii		
	The proponent shall prepare time -series maps of Jharia Coalfields through MPSA	thu 327 1 1
	Jharia Coalfields through NRSA to monitor a	
	prevent fire problems in the Jharia Coalfields	
	Isothermal mapping /imaging and monitori	during the period 2006 to 2012 from 9 Km² to 2.18
		se Km² respectively.
	to spontaneous ignition temperatures) and based which, areas with notantial form	se
	which, areas with potential fire problems shall identified. Measures to present	on
	identified. Measures to prevent in the problems shall	be
	identified. Measures to prevent ingress of a (Ventilation) in such areas, to prevent resta fresh/spread fires in other areas, to prevent resta	Work has been awarded to NRSC (earlier NRSA).
•	fresh/spread fires in other to prevent resta	It Work is being present the Courner NKSA).
	cluster II shall be send along in mines of	of State of the Options.
	internationally applied intern	6
	internationally could also be utilized for control of fir in Jharia Coalfields and for their	
	in Jharia Coefficids and for their reclamation and the	Albert Control
	further minimize time for fire and subsidence control	W. Was and the second
,	Monitoring of fire should be carried out regularly.	
	completion of reclamation of Openeast mine area.	It shall be complied. Presently only Open Cast
	The embankment constructed along the river boundary shall be of suitable dimensions and	
- 1	shall be of suitable dimensions and critical patches	It is being followed. Action for construction of
	shall be strengthened by stone pitching on the river	Embankments have been taken as specified in EMP.
	front side and stabilized with plantation so as to withstand the peak water flow	accer as specified in EMP.
1.	withstand the peak water flow	
- 4	withstand the peak water flow and prevent mine	
	ma .	Dayse were the first the f
-	Ind relects of sections	l a fair fair fair fair a la l
	to FPC bessel of washeries in Cluster -II should be send	No washers of more di
	The rejects of washeries in Cluster -II should be send to FBC hased plant.	No washery at present in cluster.
	The Manager Harrison and State of the Control of th	No washery at present in cluster.
	No mining shall be undertaken	
	No mining shall be undertaken where underground fires continue. Measure shall be at	It is being complied. Mining is being comind
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OR	It is being complied. Mining is being comind
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OR	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Own Complete the guidelines of DGMS. In area only Own Complete the guidelines of DGMS.
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced. However, an existing the state of the stat
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient carbon content.	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced. However, an existing the state of the stat
+	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OB dump areas where the fire could start due to presence of coal /shale with sufficient carbon content. There shall be no external OD in	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire.
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient carbon content. There shall be no external OB dumps. OB produce from the whole cheeter will be one of the content.	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire. All OB is being dumped at
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OB dump areas where the fire could start due to presence of coal /shale with sufficient carbon content. There shall be no external OB dumps. OB produce from the whole chister will be 484.89Mm ³ . OB from 3 OCP and 2 patches in which is the content.	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire. All OB is being dumped at
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/check such fire including in old OB dump areas where the fire could start due to presence of coal /shale with sufficient carbon content. There shall be no external OB dumps. OB produce from the whole cluster will be 484.89Mm³. OB from 3 OCP and 2 patches in mixed mine shall be backfilled. At the end of the minut there whall he had of the minut there whall he had on the produce from the whole cluster will be shall be backfilled.	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire.
	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient carbon content. There shall be no external OB dumps. OB produce from the whole cluster will be 484.89Mm³. OB from 3 OCP and 2 patches in mixed mine shall be backfilled. At the end of the mining there shall be no void and the entire mined out area shall be no void and the	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire. All OB is being dumped at
6	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/ check such fire including in old OB dump areas where the fire could start due to presence of coal /shale with sufficient carbon content. There shall be no external OB dumps. OB produce from the whole chister will be 484.89Mm ³ . OB from 3 OCP and 2 patches in which is the content.	It is being complied. Mining is being carried out as per the guidelines of DGMS. In area only Open Cast working is being practiced, However sufficient precaution is being taken to guard against fire. All OB is being dumped at

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		the state of the s		l
		a v v and alon for	Calendar plan has been prepared.	
i	x	A detailed calendar plan of production with plan for		
		OB dumping and backfilling (for OC mines) and reclamation and final mine closure plan for each mine reclamation and final mine consure plan for each mine	Mine closure plan as per the guidelines of Ministry	
	1	of cluster-II shall be drawn up and implemented.	of Coal on the basis of cluster concept has	
- 1	1	of cluster-it shall be didwit -p	prepared by CMPDI.	l
		Mining shall be carried out as per statute from the	It is being followed.	İ
	x			
- 1				ł
- 1				
				1
1				
- 1		extent feasible and the embankment proposed along water body shall be strengthened with stone pitching		١.
				-
				1"
1				1
1		m higher than the HFL. The embattering		1
				1
			4	
			There is no active duling treat	
	хi		It is being complied. There is no being ecologically the river. However old Dumps are being ecologically	
	!	be re-handled for backfilling abandoned mine voids However, those which have been biologically		
		reclaimed need not be disturbed.	COO.1 he has been	\dashv
	<u> </u>	1 - k shall be developed glong undisturbe	d It is being complied. Total area of 80.1 ha has been	-
	xii		T-1 *	
	Ì		A deat of the coal is being transported unough ranting	7
	xiii		Doed transport is being carried out un ough	+,
	7	both side as trees act as sink of carbon and other	existing network of NH/SH where avenue plantation	١ .
		pollutant.	and although feasibility of avenue	1
			plantation along the sides of approach to the	- 1
			and colonies is being carried out.	- 1
		<u> </u>		
	1	identified for the Iha	ria Dhanbad Action Plan is being implemented. The	
	xiv	Specific mitigative measures identified for the Jhar Coalfields in the Environmental Action Plan prepar	ed salient actions of this area:	-
		for Dhanbad as a critically polluted are and relevant	or 2. Water sprinkling.	
	1	Chuster- II shall be implemented.	a Diantation	
		Cluster	tallination of surplus mine Water.	
		: the The	- f monitoring stations in the Jus	ria
	, xv	The locations of monitoring stations in the Jha		AUC
	1			
	1	Inarkhand State Pollution Control Board Committee stated that smoke/dust emission vary fr	The pollution Control Board. Work of monitoring the ground water level a ground water level	nal
		source to source (fuel wood, we and a Source silica from natural dust, etc.) and a Source silica from natural dust, etc.) and a Source for source out for	report yet to be submitted.	
			- 4 - monitoring stations for the	18
				•.
		study should be undertaken on the composition in Jh	aria Roard.	
		suspended particulate matter (Fiving these studies W	ould	٠.
		Coalfields and also quantitied the air pollu- help ascertain source and extent of the air pollu-	ion,	
		help ascertain source and extent of the based on which appropriate mitigative measures of	oma	OFFA"
		be taken.	for At present we are exploring the technology to c	ond
	xv	The Transportation Plan for conveyor-cum	Plan: existing trucks mechanically by red trucks in In	dien
		The Transportation Fight to Control Cluster-II should be dovetailed with Iharia Action Road transportation of coal during Phase I should be controlled the control of the c	d be no OEM is available for covered could	
		Road transportation of com duals		
		antara di Kabupatèn		

Se.

1 .	by mechanically covered trucks, which should be	elia della di la compania
	mid oduced at the earliest.	tamenting thing thing thing thing
XVII	R&R of 1137 nos of PAF's involved. They should be	tarpaulin covered trucks.
	renabilitated at cost of Rs 45.08 Crores as nor th	e It shall be complied. BCCL is implementing CSR activities through Tata Institute of Social Science.
	approved Jharia Action Plan	The state of Booking Science.
xviii	Regular monitoring of groundwater level and quality a	f It shall be complied The 1 C
1	the study area shall be carried out by establishing	done the seal of t
1	network of existing wells and construction of new	Descend (CII) Con
1	perzometers. The monitoring for quantity shall be dome	leberators as a letter with the limiting Colin
1	four times a year in pre-monagon (May) monagon	and the second
1	(August), post-monsoon (November) and winter	The leasting of the
1	(January) seasons and for quality including Argenic and	fields hos been finelined it it it it
	raionde during the month of May Data this collected	mallation - 1 D
	snall be submitted to the Ministry of Environment &	
	rorest and to the Central Pollution Control	
İ	BOATG/SPCB quarterly within one month of	M .
	monitoring. Rainwater harvesting measures shall be	
	undertaken in case monitoring of water table indicates	
	a declining trend.	
xix	Regular monitoring of subsidence movement on the	7. 1. 11.
	surface over and around the working area and impact	It shall be complied.
:	on natural drainage pattern, water bodies, vegetation,	As the area is having O/C mines, hence no
	structure, roads, and surroundings shall be continued	substitutive is there. It shall be complied No.
	till movement assert and surroundings shall be continued	depillaring is being carried out at present.
	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.	
xx		
	Sufficient coal pillars shall be left un extracted around	Presently only OCP working exist.
	the air shaft (within the subsidence influence area) to	
xxi	protect from any damage from subsidence, if any.	The second section is a second
771	High root density tree species shall be selected and	As the area is having O/C mines, hence no
xxii	planted over areas likely to be affected by subsidence.	subsidence is there:
7711	Depression due to subsidence resulting in water	As the area is having O/C mines, hence no
1.	accumulating within the low lying areas shall be filled	subsidence is there.
	up or drained out by cutting drains.	
xxiii	Solid barriers shall be left below the roads falling	As the area is having O/C mines, hence no
	within the blocks to avoid any damage to the roads.	subsidence is there.
xxiv	No depillaring operation shall be carried out below the	Presently only OCP working exist in this cluster.
<u> </u>	township/colony.	The state of the s
XXV :	A detailed CSR Action Plan shall be prepared for	BCCL is implementing CSR activities, as per Govt.
	Chuster II croup of mines. Specific activities shall be	norms with a CSR Committee being evaluated by
	identified for CSR for the budget of Rs 77.50 Lakhs	Tata Institute of Social Science.
	per year@ Rs 5/T of coal provided for CSR for 2012-	with the same of t
	2013 and Rs. 5/T of coal as recurring expenditure. The	
	2013 and Rs. 5/T of coal as recurring expenditure. The 416.98 ha of area within Cluster II ML existing as	All welfare/ CSR activities are also unloaded in
	416.98 ha of area within Cluster II ML existing as	All welfare/ CSR activities are also uploaded in
	416.98 ha of area within Cluster II ML existing as waste land and not being acquired shall be put to	All welfare/ CSR activities are also uploaded in Company web site.
	416.98 ha of area within Cluster II ML existing as waste land and not being acquired shall be put to productive use under CSR and developed with fruit	Company web site.
	416.98 ha of area within Cluster II 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	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land /harren land within Chuster- II mining lease area shall	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land harren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/agricultural land	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land harren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/agricultural land under CSR Plan in consultation with local	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land harren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/agricultural land under CSR Pkm in consultation with local communities. Third party evaluation shall be get	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land /barren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/sgricultural land under CSR Plan in consultation with local communities. Third party evaluation shall be got carried out regularly for the proper implementation of	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land harren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/agricultural land under CSR Pkm 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.	Company web site.
	416.98 ha of area within Cluster II 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 1237.48 ha of area at the post-mining stage, the 122.18ha of fallow/abandoned land and 416.98 ha waste land /barren land within Cluster- II mining lease area shall be rehabilitated/reclaimed as forest/sgricultural land under CSR Plan in consultation with local communities. Third party evaluation shall be got carried out regularly for the proper implementation of	Company web site.

The	details of CSR undertaken along with budgethry isions for the village-wise various activities and instead on the comments	
nros	risions for the vitted of the carried the	
4471	eruliture thereon states of the principle to	Pare : 전에 이 및 하이 기업을 하고 있는 것 같다.
1	arte every year. The same and to the	
cap	acity building both within the carry out the work in	
loca	of worth, who are most	Booklet form is being maintained at Company
fint	ire. COD RAR BIO	Booklat form man-B
xvi De	tails of transportation, con, plan for the plementation of environmental action plan for the plementation of environmental action plan for the	Level
im	plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation of environmental action purpose plementation pu	In the
oh:	sters-II should be at 5	not being discharged oddies
127	thin a year and regulary	ricontag
oxvii M	thin a year and regularly updated ine discharge water shall be treated to meet standards escribed standards before discharge into natural escribed regulations. The quality of the waver	ML. Excess mine water is being stored ML. Excess mine water is being stored quarries and ponds for community use. This will help quarries and ponds for community use.
1	escribed staticalus of the water	querian d'ampter
1	oter COMBES/SIGNOCOCCO	3 1 10 100:22-8
di	scharged shall be inditioned thereof and uploaded	해 유민 사이 일은 기계 등학 교육 씨는 등 교육 제 경우 제 공기에 본 다
p p	scharged shall be monitored at the outlet post- scharged shall be monitored at the outlet post- roper records maintained thereof and uploaded	A mis being used for
		It is being complied and mille waster is also
	A a mining SCHVICOS.	the industrial purpose.
xxviii N	To groundwater shall be used for the himming and diditional water required, if any, shall be met from the additional water recording freuse of the water from the	ntilized for the commany
· I	Additional water required, if any, shall be meet from the nine water or by recycling/reuse of the water from the nine water or by recycling/reuse and from rainwater harvesting	utilized for the community and in gather property following action has been taken by the Company: Following action has been taken by the Company: Following action has been taken by the Company: Following action has been taken by the Company: Following action has been taken by the
1	nine water or by recycling/reuse of the water or by recycling/reuse of the water existing activities and from rainwater harvesting existing activities and from rainwater harvesting existing activities shall meet water	
. 1 .	existing activities and a second meet water	irrigation purpose.
1.1	measures. The project authorities shall measures, the project authorities shall measure measures of measure of mine.	i c -ining a part of
:	wells go dry to dewatering of mine.	fa It shall be complied. At the end of mining a part of the void will be converted into the water body as
	wells go dry to dewatering of mine. The void shall be converted into a water reservoir of the void shall be gently slope.	the void will be converted into the water
xxix	The void shall be converted into a water reservoir maximum depth of 15-20 m and shall be gently slop maximum depth of shall be gently shall	be specified in EMP.
1 . 1	maximum depth of 15-20 m and snall be goned shall and the upper benches of the reservoir shall and the upper benches of the periphery of	ne spoon
1	and the upper benches of the reservoir stabilised with plantation and the periphery of stabilised with plantation and the periphery of	110
1 . 1	stabilised with plantation and the penphers stabilised with plantation and the penphers stabilised with plantation reservoir fenced. The abandoned pits and voids sho reservoir fenced with OB and reclaimed with plantation	ula di anti di anti di anti di anti di anti di anti di anti di anti di anti di anti di anti di anti di anti di
	reservoir fenced. The abandoned pits and votable reservoir fenced. The abandoned pits and votable reservoir fenced with OB and reclaimed with plants be backfilled with OB and reclaimed with plants.	yef The work of monitoring is being done through
	be backfilled with OB and or may be used for pisciculture. and or may be used for pisciculture. and or may be used for pisciculture.	yef The work of monitoring is being tool Research Le a Central Institute of Mining & Puel Research Which is having CSIR
	and or may be used for pisciculture. Regular monitoring of groundwater level and quality. Regular monitoring of groundwater level and quality.	Central Institute of Ligh is having Colk
XXX	Regular monitoring of groundwater level and Regular monitoring of groundwater level and the study area shall be carried out by establishing the study area shall be carried out by establishing wells and construction of	CONTROL DIBITORS,
	the study area shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried out by statement the statement that shall be carried ou	lamo hiboratory rocognized and has been has been
	network of existing wells and construction network of existing wells and construction poizometers. The monitoring for quantity shall be depoizometers. The monitoring for quantity shall be depoizometers in pre-monsoon (May), mon	Provision of Rainwater harvesting Provision of Rainwater harvesting kept in all major buildings of the area.
1.	peizometers. The monitoring for quantity simple peizometers a year in pre-monsoon (May), mon four times a year in pre-monsoon (November) and w	cintar kept in all major buildings of the
	four times a year in pre-monsoon (Nay), four times a year in pre-monsoon (November) and w (August), post-monsoon (November) and w	a and
1	(August), post-monsoon (November) and (August), post-monsoon (November) and (January) seasons and for quality including Amenic (January) seasons and for quality including Amenic	anted
	(January) seasons and for quality mentung (January) seasons and for quality mentung for Fluoride during the month of May. Data thus coil Fluoride during the month of May. Data thus coil	20109
	shall be submitted to the Ministry of Environments and to the Contral Pollution Contral Pollution and Pollution one month	h of
	Forest and quarterly within one month	att be
	shall be submitted to the Contral Pollution Forest and to the Contral Pollution one montl Board/SPCB quarterly within one montl monitoring. Rainwater hervesting measures should be a submitted in the state of the s	all 50
	monitoring. Rant monitoring of water lates the	
	undertaken in case me	1 we constructed & manuality
1.	a decimile u onc.	CHP, if Oil greate trap.
	a door of the state of the workshop, and	
2004	rem whall also be provided for workshop, and	scribed in Work Subpa
xxxi	rem whall also be provided for workshop, and	the Theris
xxxi	ETP shall also be provided for workshop, any. Effluents shall be treated to confirm to pre-	Compilering stations in the Jharia
xxxi	ETP shall also be provided for workshop; any. Effluents shall be treated to confirm to pre- standards in case discharge into the natural	The location of monitoring stations in the Iharia
	ETP shall also be provided for workshop, any. Effluents shall be treated to confirm to pre standards in case discharge into the natural course. The location of monitoring stations in the	The location of monitoring stations in the Jhariat Coalfield has been finalized with the Jharkhand State on with Coalfield has been finalized with the Jharkhand State
xxx	ETP shall also be provided for workshop, any. Effluents shall be treated to confirm to pre standards in case discharge into the natural course. The location of monitoring stations in the	The location of monitoring stations in the Jharkand State Coalfield has been finalized with the Jharkhand State pollution Control Board.
	any. Effluents shall be treated to confirm to prestandards in case discharge into the natural course. The location of monitoring stations in the coalfield should be finalized in consultation of the state pollution Control Board.	The location of monitoring stations in the Haria on with Coalfield has been finalized with the Harikand State pollution Control Board.
	any. Effluents shall be treated to confirm to present a standards in case discharge into the natural course. The location of monitoring stations in the coaffield should be finalized in consultation. Jharkhand State Pollution Control Board.	The location of monitoring stations in the Haria on with Coalfield has been finalized with the Haria pollution Control Board. t mining Being Complied Presently a time series map of
XXX	any. Effluents shall be treated to confirm to prestandards in case discharge into the natural course. The location of monitoring stations in the coaffield should be finalized in consultation. I harkhand State Pollution Control Board.	The location of monitoring stations in the Jhariat On with Coalfield has been finalized with the Jharkhand State pollution Control Board. It mining Being Complied Presently a time series map of vegetation, cover in the Jharia Coal Field is being passed on
	ETP shall also be provided for workshop, any. Effluents shall be treated to confirm to pre- standards in case discharge into the natural course. The location of monitoring stations in the coalfield should be finalized in consultation landshand State Pollution Control Board. Kill For monitoring land use pattern and for cost the state of land use maps, to	The location of monitoring stations in the Jharia Coalfield has been finalized with the Jharkhand State pollution Control Board. The location of monitoring stations in the Jharkhand State pollution Control Board. The location of monitoring stations in the Jharkhand State pollution Control Board. The location of monitoring stations in the Jharkhand State pollution Control Board. The location of monitoring stations in the Jharkhand State pollution Control Board.
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XXX	any. Effluents shall be treated to confirm to prestandards in case discharge into the natural coalified should be finalized in consultation. The location of monitoring stations in the coalified should be finalized in consultation. That than the state Pollution Control Board. For monitoring land use pattern and for cost land use, a time series of land use maps, it satellite imagery (on a scale of 1: 5000) of zone and buffer zone, from the start of the prozone and buffer zone, from the start of the programment.	The location of monitoring stations in the Jharia on with Coalfield has been finalized with the Jharkhand State pollution Control Board. It mining being Complied Presently a time series map of the core carried out through CMPDIL Ranchi. Further CMPDI has been requested to prepare "Time series of land use maps based on satellite imagery of the core zone and buffer zone in the scale 1:50000.
XXX	ETP shall also be provided for workshop, any. Effluents shall be treated to confirm to pre- standards in case discharge into the natural course. The location of monitoring stations in the coalfield should be finalized in consultation landshand State Pollution Control Board. Kill For monitoring land use pattern and for cost the state of land use maps, to	The location of monitoring stations in the Jharia on with Coalfield has been finalized with the Jharkhand State pollution Control Board. It mining being Complied Presently a time series map of the core carried out through CMPDIL Ranchi. Further CMPDI has been requested to prepare "Time series of land use maps based on satellite imagery of the core zone and buffer zone in the scale 1:50000.

XXXXIV	Regional office at Bhubaneswar.	作用を引き付きます。 Telephonology Line は Line と Line
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	Corpus Fund shall be submitted to the Minis	ils of CMPDI, has prepared the "Final Mine Closure P by of along with a Plan for Mahamal Mine Closure P
7	Environment & Forests five year before mine of for approval. Habitet Restreets	by of along with a Plan for Habitat Restoration and w
	for approval Habitat Restoration Plan of the mine of shall be carried out using a small plan of the mine.	losure details of Corpus Fund* BCCL is being deposit
	shall be carried out using a mix of native species in the original ecosystem, which presents	e area amount as specified in the mine closure Plan.
	and exemin in an identification were conserved in	1-8itu
	reintroduction in the mine deal within the leas	e for structure to pain rebitation of his
	at the post mining stone for helicitude reclamation	a and
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- 1		nting A full-fledged Environment Department, headed by
111	capacity building required in this regard.	the HoD (Environment) along with a suitable qualifie
+11	THE PROPERTY OF THE PARTY COME.	Environment, Mining Excavation, Civil, Surve
	hanned Call Laboratory	
111	F13	executives and technicians has been established in
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		restoration, sustainable development, rainwater harvesting methods etc. At the project level, one
		Executive in each area has also project level, one
	महा सामा एक एका। पांडके	Project Nodal Officer (Environment) and is also
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		observance of the environmental Acta/
		including environment protection measures The
· •		activities are monitored on regular basis at Area and
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		The team is multidisciplinary and very much
1	(c.) He i.3 Commet. It ille i.3 Commet in vehicles mat other	motivated under the guidance of company's Director (Technical) and CMD. Further capacity building at both corporate and operating least.
1 4 150	He wher square names of the countries of the countries of	hoth capacity building at
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	Environment and Forests.	51 CORPUS & MATERIAL DE ARTIE
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	No change in the calendar plan of production for quantum of mineral coal shall be made.	The state of the s
	the supplier shall be	e The location monitoring stations in the Iharia T Coalfield have been finalized with the Iharkhand
i ,	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer stablished in the Core zone as well as in the buffer stablished in the Core zone and NOx, monitoring	State Pollution Could's
3 51	zone for PM10, F1423	ne the done by CIMPR, Diamond
	Location of the state of the lines at	Id The monte-
	environmentally and goods polletion Conti	rol 1
	consultation with the State south Board Monitoring of heavy metals such Hg.As.Ni.Cd.Cr.etc carried out at least once in a	
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. 90	WALL WALL	2.5. It shall be complied. The monitoring is being done by CIMFR, Dhanbad, the submitted.
iv ,	Data on ambient air quanty CCC and of SO2 and NOx Hg As Ni CdCr and of monitoring data shall be regularly submitted to monitoring data shall be regularly submitted to Regional Office	the final report yet to be submitted.
4	monitoring data shall us Regional Office Ministry including its Regional Con	at troil
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	shall be luming	of vehicles and outer
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	of noise levels below 85 dipt. environment Workers engaged in blasting and drilling operations, operation of HEMM, etc at drilling operations, operation of HEMM.	lovel.
	be provided with ear plugs/muffs.	La blagning Hill Warren
		HRMM, etc. HRMM, etc. From Presentity water is not being discharged outside the Recess mine water is being stored at old ML. Excess mine water is being stored at old
vi	Industrial waste water (workshop and waste water the mine) shall be properly collected, wested so the mine) shall be properly collected, wested so	as to ML. Excess mine water water lise. This will help
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	workshop emilients.	and It shall be complied. Regular maintenance of vender
V	ii Vehicular emissions shall be kept under contregularly monitored. Vehicles used for transpor	ting the is being practiced to act the interpartition in the sentral Coal is being transported in tarpaulin
	regularly moments of voters with tarpaulins and of	covered trucks. through CIMFR having CSIR
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	Personnel working in dusty areas shall wear in respiratory devices and they shall also be provided adequate training and information on safety a	nd health conducting regularization (IME) and Periodical issues. The of the Initial Medical Examination (IME) and Periodical
	aspects. X Occupational health surveillance programm	ne of the Initial Medical Examination
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		oursections due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing Medical examination of Mines Safety (DGMS) guideline. Medical examination of unsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
	xi	A separate environmental management cell with A full-fledged Environment Department, headed by a suitable qualified personnel shall be set up under the HOD/Environment) along with a suitable qualified control of a Senior Executive, who will report directly multidisciplinary team of executive, which includes to the Head of the company. A separate environmental management cell with A full-fledged Environment Department, headed by a suitable qualified multidisciplinary team of executive, which includes Environment. Mining Execution, Civil, Survey Electrical Review of Environment Personnel and Environment Person
		Headquarters. They are also trained in ecological restoration; sustainable development, reinwater harvesting metiods etc. At the project level, one Executive in each area has also been nominated as Project Nodal Officer (Environment) and is also outrusted with the responsibility of compliance and
		observance of the environmental Acts Laws including environmental protection measures. The activities are monitored on regular basis at Apea and the distribution of the control of the company. The control of the environmental Acts Laws including environmental protection measures. The activities are monitored on regular basis at Apea and the control of the company.
	xii	under the guidance of company's Director (Tech.) and CMD Further capacity building at both corporate and operating level is being done. The funds earmarked for environmental protection measures shall be kept in separate account and shall not stress to be sweet as the control of the second of th
		be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its Regional Section 1997 and Sec
	Xiii	It has been complied. Advertisement in local hosal newspapers widely circulated around the project one of which shall be in the vernacular language of the locality concerned within seven days of the olearance 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/ZilaParishad 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.
x		A copy of the environmental clearance letter shall also 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

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	noise and soil and california and critical sectors PM _{2.5} SO ₂ and NO ₂ (ambient) and critical sectors parameters shall also be displayed at the entrance of the	 Lating the property of the property of the significant of the property of the pro
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vii	m- mainet monoment shall submit six monut	y Being complied.
VIII	ti and on status of compliance of u	▶ I compared the compared to
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	hard copy and in e-mail) to the respective Regions Office of the Ministry, respective Zonal Office 8 (\overline{M}
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viii	The Decional Office of this Ministry located	at Noted.
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100	stipulated conditions. The Project authorities sh	
	extend full cooperation to the office(s) of the Region Office by furnishing the requisite day	
100	office by furnishing information/monitoring reports	
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