भारत कोकिंग कोल लिमिटेड

(A Subsidiary of Coal India Ltd)
Office of the General Manager
Eastern Jharia Area,
P.O. Bhowra, Dist: Dhanbad (Jharkhand) 828302

Ref .No. BCCL/GM/EJA/2014/

1549

Date- 18/4/2014

To
The Director (S)
Ministry of Environment & Forest
Govt. of India,
Eastern region Office
A/3, Chandrasekharpur, Bhubneshwar-751023.

Subject:- Six monthly report on implementation of Environmental protection Measures for the period from Oct, 2013 t o March, 2014 in respect of Cluster X group of mines of BCCL.

Ref:- EC-Order No.:- J-11015/380/2010-IA.II(M)dated 06.02.2013.

Dear Sir,

Kindly find enclosed here with the Six monthly report on implementation of Environmental protection Measures for the period from Oct, 2013 to March, 2014 in respect of Cluster X group of mines of BCCL.

Hope you will find same in order.

Encl.:- as above.

Yours Faithfully

General Manager E. J. Area, BCCL Cluster X

C.c. to:-

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

ENVIRONMENTAL CLEARANCE COMPLIANCE OF CLUSTER-X (GRANTED VIDE J-11015/380/2010-IA.II (M) Dated 06.02.2013) (Upto March, 2014)

1.	A. Specific Conditions by MOEF:	Compliance
lo.		
	The maximum production from the	The production from the cluster is within the limit
	onencast and underground section in the	
	cluster shall not exceed beyond that for	
	which environmental clearance has been	granted.(100%)
	granted for the cluster X as below:	
	granted for the cluster X as below.	It shall be complied. Action is being taken as
	All the void /water bodies should be backfilled upto	specified in EMP. (80%)
	ground level and no OB dump at the end of mining.	specified in Eivir. (80%)
i	Extensive plantation should be provided on either	Action has been taken for their eco-restoration
.1	side of Damodar River;	work as per Road Map prepared by FRI, Dehradun.
	side of Damodar River,	
	Details of impact of mining on Damodar River	Study on Damodar River will be taken up by
٧	Details of impact of mining on	CMPDI.
	should be assessed and provided;	Study will be taken up by CMPDI.
/	Impact of mining on ground water of the area	Study Will 25 Table 1
	(Impact Zone) should be provided;	It will be provided.
√i	A Garland drain should be provided and the drain	If will be provided.
	water should not be discharged in to Damodar	
	River:	
Vii	Excess water from mine after treatment should be	It shall be complied.
VII	supplied to the villagers;	
	the state of the s	It shall be complied.
Viii	Rejects of wasnery along with dry carbon starry	
	should be utilized in power plant and other	
	recognized vendors;	It is being complied (100%)
lx	There should be no discharge from the Washery	
	(slurry) in to the Damodar River. The entire washery	
	water should be recycled:	
Х	Damodar River should be protected by plantation on	It shall be complied.
ľ.	hath sides:	
Xi	A herbal garden with medicinal plants be developed	A herbal garden with medicinal plants has been
^1	A lici bui Barton	already developed at Patherdih.(100%)
	A time schedule for filling of existing and abandone	It is being complied. Yearly plantation is being
'Xi		done for development of green belts as p
	quarries be done;	· ·
		EMP.(80%)
1:	iii Of the total water body area of 286.54 ha in th	e It shall be complied.
×	post-mining land use, consist of 243.97 ha of natural	al
1	water bodies like Damodar river and no. of water	er land
	ponds. Only 42.57 ha of mine voids were propose	d
	to be converted to artificial water bodies for	or
1.	to be converted to artificial water bodies in	7.
	catering to domestic use of local villagers. Keepin	15
	in view the Damodar river in the vicinity, the	re
	should be no additional water bodies are create	ed
1	from mine.	· ·
-		an Master Plan is dovetailed with environmen
- []	for cluster X groups of mine and the conditions give	
	for cluster X groups of mine and the conditions give	
1	in this environmental clearance letter shall	ho l

			and the second s
			A CONTROL OF THE CONT
	٠		
		etailed to the implementation of the Jharia	
		stalled to the implementation	NDSC (corlier NDSA) A
	Actio	on Plan. there is no fire in Cluster X but the measure	Work has been awarded to NRSC (earlier NRSA). A
ΧV	As t		MoU is to be entered with the NRSC for start of
		sink baring fire to this Cluster X. The proponent	the work. For this purpose, duly signed MoU has
1	1	u time -series maps of the Illalia	been sent to NRSC for necessary processing at
1	10	usialds through NRSA to monitor and prevent me	their end and to start the work immediately .(Copy
		blome in the Iharia Coalfields by Isotherman	enclosed as Annexure-A)
		ing /imaging and monitoring temperatures or	•
	the	coal seams (whether they are close to	Action is being taken as specified in the Master
	spo	ontaneous ignition temperatures) and based on	Plan and EMP.
	wh	nich, areas with potential fire problems shall be	Plan and Com.
1	ide	entified. Measures to prevent ingress of air entified. in such areas, to prevent restart	
1	(V€	entilation) in such areas, to proceed the series in other areas including in mines	
		alliana VIV shall be undertaken.	to the state of th
xvi	-	descround mining should be taken up after	It is being complied. Mining is being done as per
1 201	co	impletion of reclamation of Opencast mine area	The Edition of the Abbus and Abbus a
	af	ter 2 years.	Directorate General of Mines Safety (DGMS)
			(100%)
1		o mining shall be undertaken where underground	It is being complied. (100%)
XV	vii N	res continue. Measure shall be taken to prevent/	'
1	1 .	under the including in old OB dump.	the second study
\ \frac{1}{\sqrt{v}}		and of cluster Y is under River Damodar. It was	s CMPDI RI-2 has been requested to conduct study , of permeability and seepage of water of River
		in the standard stand	, or permeasure,
	١.	Lara is no coal underneath River Damoual, which	
steply	ا هرا	would be mined. The Committee desired that the	
nego	ا تي	data of bore wells near River Damodar require to be	er
. -	. 1	monitored for permeability and seepage of waste	
		of River Damodar.	e It shall be complied.
(Xix	The rejects of washeries in Cluster –X should b	
	1:	send to FBC based plant.	IG I in EMD
L		There shall be no external OB dumps. OB produc	ce Action is being taken as specified in EMP.
[3	Xx	from the whole cluster will be 29.01 Mm ³ . OB fro	m Backfilling of OB is going on with mining. At the
		one parch OCD mine shall be backfilled. At the el	ind I end of mining there shall be no to a
		the mining there shall be no void and the enti-	ire he re-vegetated and reclaimed.(80%)
		mined out area shall be re-vegetated. Areas wile	ere in the street of the stree
	- 1	chencast mining was carried out and complete	ed
		shall be reclaimed immediately thereafter.	•
			for Calendar plan has been prepared.
1	Xxi	A detailed calendar plan of production with plan	
		an increase and backfilling fill Oc initios	arra Millie diagram
		and final mine closure plan for co	den of Coal and on the basis
		mine of cluster- X shall be drawn up	under preparation by central mine
	1	implemented.	Design Institute (CMPDI).
		The void in 5 ha area shall be converted into a w	ater It shall be complied. A part of the void will
	1	reservoir of a maximum depth of 15-20 m in preservoir of a maximum	post Converted into the
	Xxii		
	6	I william stage and shall be gently sloped und	
xìii c	6	mining stage and shall be gently sloped and	nized
kiji c	6	mining stage and shall be gently sloped and upper benches of the reservoir shall be recogn with plantation and the periphery of the reservoir. The abandoned pits and voids should	rvoir

	ba	ckfilled with OB and biologically reclaimed with
	pla	antation and or may be used for pisciculture
		f apparentiation of
Xxii	M	Ining shall be carried out as per statuette from the lease and embankment has been taken as specified in EMP
i	st	reams/nalas flowing within the lease and embankment has been taken as specified in EMP
	m	aintaining a safe distance from the Nalas flowing (100%)
. •	al	ong the lease boundary. A safety barrier of a
	``I	inimum 60m width shall be maintained along the
	n	alas/water bodies. The small water bodies in OC
	s	hall be protected to the extent feasible and the
	e	mbankment proposed along water body shall be
	s	trengthened with stone pitching.
	1.	And hading Eurther
XX	i A	
v	۱ -	band he rehandled for backfilling abandoned time action has been taken
	. \	
ŀ	- 1	reclaimed need not be disturbed. (100%)
-		Thick green belt shall be developed along It is being complied. Yearly plantation is being It is bei
X	XV	Thick green belt shall be developed along done for development of green belts as per EMP.
1	1.	reclamation. During post mining stage, a total of
	-	47.63 ha area would be reclaimed by planting native
	- \	species in consultation with the local
1		species in consultation with the local DFO/Agriculture Department/institution with the
1.	.	relevant discipline. The density of the trees shall be
		Leggo -legge nor ha
-		The road should be provided with avenue plantation It shall be complied.
	XXV	on both side as trees act as sink of carbon and other
	i	pollutant.
		politicality.
+	V	Specific mitigative measures identified for the Jharia Dhanbad Action Plan is being implemented. The
1	Xxv ii	Coolfields in the Environmental Action Figure 3 Salient actions of this states
		proposed for Dhanbad as a critically polluted are and 1. Covered transportation of Coal. (100%)
		relevant for ClusterXIV shall be implemented. 2. Water sprinkling(100%)
- 1		3.Plantation.
١		The locations of monitoring stations in the Jharia
	.xxx	
	iii	Coalfields should be finalized in consultation with Coalfields should be finalized in consultation with State Pollution Control Board. The State Pollution Control Board.
		the Jharkhand State Pollution Control Board. The State Pollution Control Board.
	1	Committee stated that smoke/dust emission vary
		from source to source (fuel wood, coal, fly ash from The work of monitoring of ambient environment of Mining 8
		TPPs, silica from natural dust, etc) and a Source will be done through Central Institute of Mining 8
	1.	Apportionment Study should be got carried at the Research (CIMFR), Dhanbad which is having
	1	the entire inaria countries on the CSIR laboratory recognized under the EP Rules. For
	1	composition of the suspended particulate matter composition of the suspended particulate matter the source apportionment study the action has been taken with help of CMPDIL.
		(PM ₁₀ and PM _{2.5}) in Jharia Coalfields and also been taken with help of CMPDIL.
•	1	quantified. These studies would help ascertain
		source and extent of the air polition, based on Presently ambient air is being monitored through
•		which appropriate mitigative measures could be RCCL own Laboratory at HQ level.
٠.	L	taken. It is being complied and mine water is being used
	X	xi No groundwater shall be asset shall be for the industrial purpose. Further Mine water is
	×	activities. Additional water required, if any, shall be activities. Additional water required, if any, shall be also utilized for the community and irrigation
		met from mine water or by recycling/reuse of the also utilized for the community and irrigation
	L_	

	丁	wate	er from the existing activities and from purposes. (100%)	
	1	rainv		
			4. Installation of Plessare Interest	
	1	The	project authorities shall meet water mine water isometry village(s) in case the village 5. Rain water Harvesting	
	.]	requ		
.		well	Is go dry to dewatering of mine.	ı
-	(xx	Pog	jular monitoring of groundwater level and quality It is being complied. The work of monitoring will be done through Central Institute of Mining & Fuel	
^	XX	-5 -1	he study area shall be carried out by establishing be done through	1
		l	atmost of existing wells and construction of new Research (Clivier), Dilanda Williams	
		1	remotors. The monitoring for quantity shall be I laboratory recognized under the Li Males	
		don	me four times, a year in pre-monsoon (May), Presently CMPDI is monitoring the ground water proposed (August), post-monsoon (November) and level.	
		1	(lanuary) seasons and for quality including	
	٠.		and Eluoride during the month of May. Data	
		1	us collected shall be submitted to the winistry or	Ĭ
		F	wiscomment & Forest and to the Central Poliution The Monitoring Stations for this party	
		Co	onitoring. Rainwater harvesting measures shall be onitoring. Rainwater harvesting measures shall be	
1		mo	onitoring. Kaniwater harvestage of water table control board. (2007)	
		. 1 :	dicates a declining trend.	.
ŀ	Xx	. DA	ting discharge water shall be treated to meet it is being something	;
	i ·		handards prescribed standards before discharge Control Board has seen	
		in	natural water courses/agriculture. The quality purpose. The water discharged shall be monitored at the monitoring will be done through Central through Centra	a 📗
	1	of	of the water discharged shall be monitored at the through the shall be monitored at the shall be monitored at the shall be monitored at the through the shall be monitored at	
	١.	O	and uploaded regularly on the company website. Dhanbad which is having CSIR laborator	y
	1	d	recognized under the EP Rules. Presently min	e
			water is being monitored through BCCL ow	n
		.	Laboratory at HQ level.	-
			complete the second Transis heing	
	X	XX E	ETP shall also be provided for workshop, and CHP, if Construction of ETP/ Oil grease Trap is being taken-up.	
	ii		refluente shall be treated to commit to lakellup.	
		1	prescribe standards in case discharge into the	
	1		natural water course. At present only development districts are	
	1	(xx		
	i	[author over and around the working area and operational at a	
		1	impact on natural drainage pattern, water bodies, depillaring district is taken up. However regular vegetation, structure, roads, and surroundings shall monitoring of subsidence will be undertaken on vegetation, structure, roads, and surroundings shall will be undertaken on vegetation.	
			the movement ceases completely. In appraising depillaring districts. (100%)	
		1	case of observation of any high rate of subsidence	
			annronriate effective contours	
			language shall he taken to avoid loss of the and	
	. 1		material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material. Sufficient coal pillars have been left around air	
	1		c. History coal pillars shall be left unextracted summer to care avidalines	
	. \	iv	the air shaft (within the Subsidence Shafts as per the	
		14.	influence area) to protect from any damage from (100%)	
			subsidence, if any.	d its
		Xxx	Light root density tree species shall be selected and Identification of high root density tree species shall be selected and	ken-
		V	planted over areas likely to be affected by plantation in subsidence prone area will be to up at the time of depillaring operations.	
			subsidence. up at the time of depiliaring operations.	
		L		

		t shall be complied.
(xx /i	accumulating within the low lying areas shall be	
	gued on or drained out by cutting drains.	t is being followed. Sufficient barriers are left for
Xxx	Solid barriers shall be left below the roads I falling within the blocks to avoid any damage to	saving the surface installation and infra structures
vii	falling within the blocks to avoid any demand	as per the statute and DGMS guidelines. (100%)
	the rodus.	
Xxx	No depillaring operation shall be carried	It is being followed. (100%)
viii	the township/colony.	Action has been taken for formulating adequate
Xxx	The Transportation Plan for conveyor-cum-rail for Cluster- X should be dovetailed with Jharia Action	transportation plan for conveyor cum rail system
ix	Plan Poad transportation of coal during Phase-I	of dispatch. CMPDIL has been requested to
	should be by mechanically covered trucks, which	prepare the plan.
	should be introduced at the earliest. The Plan 101	By that time transportation is being done by
•	conveyor-cum-rail for Cluster-XIV should be	covering vehicle with tarpaulin cover. Action for
	dovetailed with Jharia Action Plan. The road transpiration of coal during phase—I should be by	mechanically covered trucks has been taken.
	mechanically covered trucks.	and for Source
χI	A study should be initiated to analyze extent of	CMPDI RI-2 has been requested for Source
"	reduction in pollution load every year by reducing	Apportionment Study.
	road transport.	
1/1:	R&R of 1670 nos of PAF's involved. They should be	Implementation is being done as per the Master
Xli	rehabilitated at cost of Rs 7087.75 Lakhs as per the	plan.
1	approved Jharia Action Plan.	
		It is being followed.
xli	Details of transportation, CSR, R&R and	If is being tonowed.
.	implementation of environmental action plan for	
	each of the 17 clusters should be brought out in a booklet for and submitted to Ministry.	
		r It is being complied. BCCL is implementing CSR
X	iii A detailed CSR Action Plan shall be prepared for	
١.	Cluster X group of mines. Specific activities shall be identified for CSR of Rs 20.25/annum @ of Rs 5/tol	formed at Area level for cluster -X.
	of coal production. As recurring expenditure. The	e lottiled at the
	47 c2 ba of area within Cluster XIV ML existing a	P '
	Luna being acquired shall be but t	0 1
	productive use under CSR and developed with his	•• [
-	bearing and other useful species for the loc communities. Third party evaluation shall be go	ot service in the service of the ser
٠. ا	persied out regularly for the proper implementation	?''
	at activities undertaken in the project area und	ei
	cen legge raised in the Public Hearing Shall also	be
	integrated with activities being taken up under CS The details of CSR undertaken along with budgets	iry
	and the village-wise various activities a	ilu
	amonditure thereon shall be uploaded on the	ine
	wobsite every year. The company in	use
	give priority to capacity building both within to	ted
	company and to the local youth, who are motiva to carry out the work in future.	the sime series man of
	the size land use nattern and for post mile	ing Complied. Presently a time series map of vegetation cover in the Jharia Coal Field is being
	line line series of land use maps, bases	ACBCTOTION OF
	satellite imagery (on a scale of 1: 5000) of the o	ure
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

: '			
		the state of the project	carried out through CMPDI Ranchi.
	zone		Further CMPDI has been requested to prepare
1	until	end of mine life shall be prepared once in 3	"Time series of land use maps based on satellite
	year	s (for any one particular season which is is istent in the time series), and the report	imagery of the core zone and buffer zone in the
	cons	nitted to MOEF and its Regional office at	scale 1:50000 for every 3 years.
	subi	nitted to MOEF and its neglection	
341	:	baneswar. nal Mine Closure Plan along with details of	CMPDI has been requested to prepare "Final Mine
XIV	1	rund chall be submitted to the william,	Closure Plan along with a Plan for Habitat
	1 - •	b. Egrests tive year belove initio	Restoration and with details of Corpus Fund".
		Labitat Restoration Flatt of the Imme	:
1	1	about the carried out using a mix of matter	
	I	der found in the original ecosystem, which we	
	con	served in-situ and ex-situ in an identified area nin the lease for reintroduction in the mine	
	wit	nin the lease for reintroduction in the lease for reintroduction in the post mining	
	eta	ge for habitat restoration.	The second of th
	1	· ·	A full-fledged Environment Department, headed
xlv	A	separate environmental management cell with	by a Hop (Environment) along with a suitable
1	1	table qualified personnel shall be set up under control of a Senior Executive, who will report	100
	the	ectly to the Head of the company for	nos.) which includes Environment, Mining,
	1 :	-lamonting environment policy and some	Excavation, Civil, Survey , Electrical & mechanical,
	ec	pnomic issues and the capacity building required	Forestry disciplines executives and technicians (4)
	in	this regard.	nos.) has been established in Headquarters. They
		· · · · ·	are also trained in ecological restoration,
	1.		sustainable development, rainwater harvesting
			methods etc. At the project level, one Executive in
	- 1		each area has also been nominated as Project
			Nodal Officer (Environment) and is also entrusted
			with the responsibility of compliance and
	- 1		observance of the environmental Acts/ Laws
	1		including environment protection measures .The
			activities are monitored on regular basis at Area
-			and at Head quarters levels. GM (Environment) at
	1		and at Head quarters levels. Give (arrival)
1	.		head quarter level, co-ordinates with all the Areas
			and reports to the Director (Technical) and in turn
	- 1		he reports to the CMD of the company.
	1		The team is multidisciplinary and very much
			motivated under the guidance of company's
	1		Director (Technical) and CMD. Further capacity
			building at both corporate and operating level is
1	. 1		being done. (100%)
	100	Implementation of final mine closure plan for	For the purpose of safety issues related to the
	Xlvi	Cluster X, subject to obtaining prior approval of t	closure of mine prior approval of DGMS will b
	İ	DGMS in regard to mine safety issues	taken.
	1		
	Xlvi	Corporate Environment Responsibility:	
	ii	↓ s · · · · · · · · · · · · · · · · · ·	A well defined Corporate Environment Policy h
· . • .		E The Company shall have a well laid down	already been laid down and approved by the
	1 :	Environment Policy approved by the Board	already been laid down and app
	1 .		

•		Board of Directors. This is also posted on BCCL
·	Divactors	
		website.
	F The Environment Policy shall prescribe for	C-walled
	standard operating process/procedures to bring into focus any infringements/deviation/violation	Complied.
	of the environmental or forest	
	norms/conditions.	
	The state of the s	A hierarchical system of the company to deal with
	G The hierarchical system or Administrative Order	environmental issues from corporate level to mine
	of the company to deal With environmental	environmental issues from corporate
	to and for ensuring compliance with the	level already exists.
	environmental clearance conditions shall be	
	furnished.	
. •	harks and halances, the	
	H To have proper checks and balances, the company shall have a well laid down system of	Being complied.
	of non-compliances/violations of	The state of the s
	environmental norms to the Board of Directors	
	of the company and/or shareholders or	
	stakeholders at large.	
В	MOFF.	f Being complied. (100%)
1	technology and scope of	
	working shall be made without prior approve	
-	Ministry of Environment and Forests. No change in the calendar plan of production for	Being complied. (100%)
ii	e minoral coal shall be illauc	the state of manitoring stations in
_		The fixing up of locations of monitoring stations in
lii		er the Jharia Coalfields has been identified with the
	The DNA DNA SO, and NOX monitorni	B. Jharkhand State Pollution Control Board.
	data tonographical leatures u	The work of monitoring of ambient enter
		the done through (entire) institute of thinks
	consultation with the State Pollution Control Boar Monitoring of heavy metals such as Hg, As, Ni, C	cd, Fuel Research (CIMFR), Dhanbad which is having
	Cr, etc carried out at least once in six months.	CSIR laboratory recognized under the EP Rules.
	Cr, etc carried out at reast and	and It shall be complied.
1	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ a	
	other monitoring data shall be regularly submit to the Ministry including its Regional Office	•
	to the State Pollution con	, and a
.	- Land Alex Control Politition Control Double	
1	nandom verification of Juni	pies (
	independent iduorate), i.e.s. (
[acrosomized under the EPA fules, 1500 state	i be
. 4	furnished as part of compliance report.	
1	1	ol of Being Complied. (100%)
	V Adequate measures shall be taken for contri	
	noise levels below 85 dBA in the work environm Workers engaged in blasting and drilling operations	tions,
	workers engaged in blasting and drilling operation of HEMM, etc shall be provided wit	h ear
	operation of neivivi, etc situation production of neivivity, etc situation of neivivit	
	plugs/muffs.	water The fixing up of locations of monitoring stations i
	Vi Industrial wastewater (workshop and waste	water The fixing up of locations of monitoring stations
	Vi Industrial Wastewater (Workshop	
·.	·	• • •
4. * .	•	

	U to the total	the Jharia Coalfields has been identified with the
		Ibarkhand State Pollution Control Board.
	so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December	The work of monitoring of ambient environment is
1		haing done through Central Institute of Mining &
	discharge. Oil and grease trap shall be installed	Fuel Research (CIMFR), Dhanbad which is having
	before discharge of workshop effluents.	laboratory recognized under the EP Rules.
1.	Belore discharge of the	Presently mine effluent is being monitored
		through BCCL own Laboratory at HQ level.
1.		(modgii beet s
	La control and	It shall be Complied. (100%)
vii	Vehicular emissions shall be kept under control and	
	regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and	
ľ	optimally loaded.	
Viii	Monitoring of environmental quality parameters	It is being done. (100%)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1
1	t make number and type of pollution monitoring	'
	and analysis equipment in consultation with the State Pollution Control Board and data got analyses	
	State Pollution Control Board and EPA Rules through a laboratory 26recognized under EPA Rules	Parameter Commence of Commence
1	1986.	
		r Being Complied. Vocational training Centers under
. lx	Personnel working in dusty areas shall wea	Resource Development Deptt. is
1.	protective respiratory devices and they shall also b provided with adequate training and information o	n conducting regular training programme on these
	safety and health aspects.	issues. (100%)
	Safety and neutral deposits	
1.	of the	ne Initial Medical Examination (IME) and Periodical
X	Occupational health surveillance programme of the	Andical Examination (PME) of all the personner
	workers shall be undertaken periodically to observany contractions due to exposure to dust and	to larg carried out as per the Statutes and Director
	take corrective measures, if needed and recor	ds General of Mines Safety (DGMS) guideline. (100%)
	The duality of environment w	ue
	and the health and salety issues	•
	the outsourced manpower should be addressed	by
	the company while outsourcing.	
		vith A full-fledged Environment Department, headed
t	Xi A separate environmental management cell v	det la suitable along with a suitable
	suitable qualified personnel shall be set up un the control of a Senior Executive, who will re	port gualified multidisciplinary team of executives (12
	directly to the Head of the company.	mack which includes Environment, willing,
	directly to the nead of the same	Excavation Civil Survey Electrical & mechanical,
		Forestry disciplines executives and technicians (4)
•		nos I has been established in Headquarters. They
		also trained in ecological restoration,
		development, rainwater harvesting
		At the project level, one executive in
		has also been nominated as Project
		1 Lat Officer (Environment) and is also entrusted
		with the responsibility of compliance an
		With the toponion

		observance of the environmental Acts/ Laws
		ncluding environment protection measures .The
		activities are monitored on regular basis at Area
		and at Head quarters levels. GM (Environment) at
. '		head quarter level, co-ordinates with all the Areas
		and reports to the Director (Technical) and in turn
		he reports to the CMD of the company.
		The team is multidisciplinary and very much
		motivated under the guidance of company's
		Director (Technical) and CMD. Further capacity
		building at both corporate and operating level is
		being done. (100%)
		It is being complied.
Xii	The funds earmarked for environmental protection measures shall be kept in separate account and shall	
	he diverted for other purpose. Year-wise	
	expenditure shall be reported to this Ministry and	
	its Regional Office at Bhubaneswar.	
	- Land in two	It has been complied.
Xiii	The Project authorities shall advertise at least in two	1
1 .	local newspapers widely circulated around the project, one of which shall be in the vernacular	Advertisement in local newspaper is enclosed as
	language of the locality concerned within seven days	annexure-B.
	as the clearance letter informing that the project has	The state of the s
	have accorded environmental clearance and a copy	
	been accorded environmental clearance and a copy	
	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	
	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 a	
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xiv	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 .	II Complied.
xiv	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 sha be marked to concern Panchayat/Zila Parishad be marked to concern Panchayat/Zila Pan	II Complied.
xiv	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 sha be marked to concern Panchayat/Zila Parishac Municipal corporation or Urban local body and local states and the part of the pa	II Complied.
xiv	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 sha be marked to concern Panchayat/Zila Parishac Municipal corporation or Urban local body and local NGO, if any, from whom any suggestion has been received while processing the same and the suggestion has been received while processing the same and the state of the suggestion has been received while processing the same and the state of the suggestion has been received while processing the same and the state of the suggestion has been received while processing the suggestion of the suggestion and the suggestion has been received while processing the suggestion of the suggestion and the suggestion of the suggestion and the suggestion of the suggestion	II Complied.
xiv	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 sha be marked to concern Panchayat/Zila Parishac 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 sha	II Complied.
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Xvi	The clearance letter shall be uploaded on the	Complied.
	company's website. The compliance status of the	
	stipulated environmental clearance conditions shall	were the second of the second
1	also be uploaded by the project authorities on their	
ŀ	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 PM ₁₀ , PM _{2.5} , SO ₂ 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.	
Xvii	The project proponent shall submit six monthly	Being complied.
	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 s of CPCB and the SPCB.	• •
Xvii	The Regional Office of this Ministry located at	Shall be complied.
1	Bhubaneswar shall monitor compliance of the	
'	stipulated conditions. The Project authorities shall	with the second of the second
	extend full cooperation to the office(s) of the	
	Regional Office by furnishing the requisite data/	
	information/monitoring reports.	•
Xix	The Environmental statement for each financial year	Being complied.
AIX	ending 31 March in Form V is mandated to be	being complied.
	submitted by the project proponent for the	
	concerned State Pollution Control Board as	
	prescribed under the Environment (Protection)	
	• • • • • • • • • • • • • • • • • • •	
	Rules,1986,as amended subsequently, shall also be	
	uploaded	
.	On the company's website along with the status of	
1 .	compliance of EC conditions and shall be sent to the	
l .	respective Regional Offices of the MoEF by E-mail.	

General Manager
E. J. Area
B.C.C.Ltd.