

BHARAT COKING COAL LIMITED (A (Subsidiary of Coal India Ltd.) Office of the General Manager Govindpur Area SONARDIH, DHANBAD – 828125

Ref No: Ref. No.:BCCL/GM/Area III/ 2014/ 1

Date: 14.04.14

To, The Director(s) Ministry of Environment & Forest Govt. Of India Eastern Region Office. A/3, Chandrashekharpur, Bhubaneshwar -751023

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भारतीय दात

Sub: - Six monthly Reports on Implementation of environmental measures for the period from Oct '13 to March '14 in respect of Cluster III group of mines EC Order no. J-11015/213/2010-1 A.II (M) dated 06.02.13.

Dear Sir.

Enclosed please find herewith six monthly Reports on Implementation of environmental measures for the period from Oct '13 to March '14 in respect of Cluster III group of mines EC Order no. J-11015/213/2010-1 A.II (M) dated 06.02.13 for your kind perusal.

Yours faithfully,

eral Manager Govindpur Area, BCCL

Copy To:

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

- 2. HOD (Envt.) BCCL, Koyla Bhawan, Dhanbad.
- 3. Addl. General Manager, Govindpur Area.
- 4. Nodal Officer (Envt.), Govindpur Area.

COMPLIANCE OF EC CONDITIONS:- CLUSTER-III

EC Letter No. J – 11015/213/2010- IA. II(M), Dated 06.02.2013

S. no.	A. Specific Conditions by MOEF:	Compliance
i	The maximum production from the two opencast sections in the cluster shall not exceed beyond that for which environmental clearance has been granted	The approved normative production and peak production are 2.10 MTPA & 2.73 MTPA respectively. The total production of the two opencast projects is 2.53 MT in the year 13-14 which is well within the limit.
ii	The measure to identify in the Environmental Plan for Cluster- III groups of mine and the conditions given in this environmental clearance letter shall be dovetailed to the implementation of the Jharia Action Plan.	Master Plan activities are dovetailed with compliance of environmental clearance conditions.
ifi	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 /jmaging and monitoring	Work has been started by NRSC (earlier NRSA). Copy of work order enclosed as (Annexure-A)
	temperatures of the coal seams (whether they are close to spontaneous ignition 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/spread fires in other areas including in mines of cluster III shall be undertaken.	Action is being taken as specified in EC and as per Jharia Master Plan. Further fire patches are under operation to dig out the fiery coal and combustible materials to save the coal from burning and to stop further spread of the fire. Once the fiery coal is dug-out/excavated there will be no more chance of re-starting of fresh/ spreading of fire into other areas.
	Expertise available internationally could also be utilized for control of fire in Jharia Coalfields and for their reclamation and to further minimize time for fire and subsidence control. Isothermal mapping using thermal imaging has been got done by NRSA. Measures would be taken to prevent ingress of air (ventilation) in such areas, which may re-start fresh fires.	Eshall be completed. Company of the parties of the company of the

xii	Mining. A detailed calendar plan Of production with the plan for OB dumping and backfilling (for O/C	Calendar plan of production has been formulated and hereby enclosed in annexure – 'B1,' OB dumping and backfilling (for O/C mines) and reclamation is already under preparation and CMPDIL
	mines) and reclamation and final mine closure plan for each mine of	has prepared a final mine closure plan.
** ***	cluster-III shall be drawn up and implemented. The schedule of backfilling should be clearly bought	State on the servery to process and thurkhand State Politica
	out and submit the same to MoEF.	
xiii	Mining shall be carried out as per statute from the streams/nalas flowing within the lease and maintaining a safe distance from the	It is being followed. Embankments have been constructed as specified in EC
	Nalas flowing along the lease boundary. A safety barrier of a minimum 60m width shall be	pinokad singelaga na sg servad turnup
	maintained along the nalas/water bodies. The small water bodies in	Author Starty (C. 100)
Ž m	OC shall be protected to the extent feasible and the embankment proposed along water body shall be	For the philips appreciationers, the value school from the common state of the common
	strengthened with stone pitching.	
xiv	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.	No OB is being dumped near water bodies. The OB dumps created earlier already stabilized & further action has been taken for their eco-restoration work as per Road Map prepared by FRI, Dehradun and as per the action plan of Prof. CR Babu ,Professor Emirates CEMDE,Dehi University. Details of programme of eco-restoration are enclosed as annexure-C.
	the sticely described type of which the saffest. I the district from the district from the district from the district from the safe from the district from the district from the district from the district from the safe from the	being down as a send which
XV	Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. A total area of 854.72 ha shall be reclaimed and afforested.	It shall be complied. Yearly plantation is being done for development of green belts as per EC. Green belt development programme is enclosed as annexure-B.2
xvi	Details of transportation, CSR, R&R and implementation of environmental action plan for the clusters-III should be brought out in a booklet form within a year and regularly updated.	It shall be complied.
xvii	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 III shall be implemented.	Dhanbad Action Plan has been prepared in consultation with Jharkhand Pollution Control Board for entire BCCL and not cluster wise. It is being implemented comprehensively for all the mines of BCCL. Some of the salient actions of this cluster are as under: 1. Construction of pucca road 2. Construction of water reservoir

1		
1	The second of the second of	for mine water utilization
	military of impression or accured	3. Plantation.
	The second consideration of	4. Transportation of coal in covered vehicles
	the same rate of the second of	Pur un al. I will be used when piller extraction nerow is not
xviii	The locations of monitoring stations in the Jharia Coalfields should be finalized in consultation with the	Establishment of ambient environment quality monitoring stations is already in process and Jharkhand State Pollution Control Board is being pursued in this regard.
	Jharkhand State Pollution Control Board. The Committee stated that smoke/dust emission vary from source to source (fuel wood, coal, fly ash from TPPs, silica from natural dust, etc) and a Source	The work of monitoring of ambient environment has already started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules.
N. W.	Apportionment Study should be got carried out for the entire Jharia Coalfields. Mineralogical composition study should be	Ambient air is also being monitored through BCCL own Laboratory at HQ level.
	undertaken on the composition of	
	the suspended particulate matter	
	(PM ₁₀ and PM _{2.5}) in Jharia Coalfields and also quantified. These studies	For the source apportionment study the action has been taken to conduct with help of CMPDIL, RI-II.
	would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.	
xix	The Plan for conveyor-cum-rail for	Action has been taken for the transportation plan for conveyor
xix	Cluster-III should be dovetailed with Jharia Action Plan. The Committee desired that road transportation of coal during Phase—I should be by mechanically covered trucks, which	cum rail system of dispatch. CMPDIL, RI-II has been requested to conduct study and prepare the plan in this regarding. Conversion of existing truck in to mechanically covered trucks in a phased manner has been taken up. By that time transportation is being done by covered vehicle with a tarpaulin cover.
	should be introduced at the earliest. Coal dispatch shall be diverted from	The state of the s
	the present rail sidings to Rapid Loading System (RLS) soon after the construction and commissioning of the RLS at Maheshpur is completed.	
	The railway siding order issued and same would come in 3 years. The details of same should be provided to ministry. The mode of	
	transportation of coal by truck till Railway Siding should be by mechanically covered trucks	•
XX	3756 nos of PAF's should be rehabilitated at cost of Rs 27012.66 Lakhs as per the approved Jharia	It is being followed as per the approved Jharia action plan.
	Action Plan.	

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N	Underground mining should be taken up after completion of reclamation of Opencast mine area.	It shall be complied.
V	The OB material should be crushed like sand and be used for stowing in underground mines.	The methods of utilization of OB material for stowing are being explored. It will be used when pillar extraction below important surface features/town/village etc will be carried out.
vi	A detailed calendar plan of	Calendar plan has been prepared and enclosed as annexure-B.1
10	production with plan for OB dumping and backfilling (for OC mines) and reclamation and final mine closure plan for each mine of cluster-III shall be drawn up and implemented. The schedule of backfilling should be clearly brought	Mine closure plan as per the guidelines of Ministry of Coal is finalized and circulated by Regional Institute –II, Central Mine planning and Design Institute, Dhanbad. The financial provisions required for the implementation of mine closure plan are being kept in accounts.
· 1	out and submit the same to MoEF.	
vii	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and	It is being followed. Embankments have been constructed as specified in EC
	Stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	Represent only one depute the duty of the second
viii	The rejects of washeries in Cluster –III should be send to FBC based plant.	Coal washery does not exist in this cluster at present.
ix	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 shall be complied. Action is being taken to control, mine fires including old OB dump areas as specified in Jharia Master Plan and the mining is being done as per the guidelines and permissions of Directorate General of Mines Safety (DGMS).
Х	There shall be no external OB dumps. OB produce from the whole cluster will be 80Mm³. OB from 2 OCP in mixed mines shall be backfilled. At the end of the mining there shall be no void and The entire mined out area shall be	It shall be complied. Action is being taken as specified in EMP. For Backfilling of OB concurrent with and reclaimed.
	re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter. It was observed that most of the OBs are not reclaimed and abandoned. The proponent should dump all the OB material in abandoned mines.	
xi	Number of voids present in cluster – III at the end of mining should be backfilled up to ground level and no void should be left at the end of	It shall be complied.

	level and quality of the study area	ground water monitoring has already started by Central Institute
	shall be carried out by establishing a	of Mining & Fuel Research (CIMFR), Dhanbad having CSIR
	network of existing wells and	laboratory recognized under the EP Rules.
	construction of new peizometers.	Fixing up the monitoring stations for this purpose is in process
	The monitoring for quantity shall be	
	done four times a year in	with Jharkhand State Pollution Control Board.
25	pre-monsoon (May), monsoon	The Control of the State of the Section of the Sect
	(August), post-monsoon	FOR CALL SCHOOLS IN CONTRACTOR IN COLOR OF THE SECOND AND AND AND AND AND AND AND AND AND A
	(November) and winter (January)	National Part Late
	seasons and for quality including	
	Arsenic and Fluoride during the	
	month of May. Data thus collected	
	shall be submitted to the Ministry of	THE ASSESSMENT OF THE PROPERTY
	Environment & Forest and to the	the state of the s
	Central Pollution Control	The second state of the second
		In that different or other more property as a series
	Board/SPCB quarterly within one	
	month of monitoring. Rainwater	
	harvesting measures shall be	
	undertaken in case monitoring of	χ
	water table indicates a declining	
	trend.	
i	Regular monitoring of subsidence	At present, only one depillaring district is operational at UG
	movement on the surface over and	mines in Cluster III and others are development districts. Regula
	around the working area and impact	monitoring of subsidence over depillared area is being done as
	on natural drainage pattern, water	per stipulation.
170	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.	
ii	Sufficient coal pillars shall be left	Sufficient coal pillars have been left around air shafts as per the
	unextracted around the air shaft	statutes and DGMS guidelines.
	(within the subsidence influence	
	area) to protect from any damage	
	from subsidence, if any.	
V	High root density tree species shall be selected and planted over areas	Identification of high root density Plant and its plantation in
	likely to be affected by subsidence.	subsidence prone area is in the process. The plantation
	intery to be directed by subsiderice.	programme will include such plants.
,	Depression due to subsidence	It is complied.
·	resulting in water accumulating	the state of the s
	within the low lying areas shall be	and so the Council and of Health Park in Salad Park 1997
	filled up or drained out by cutting	Self-or proving model that the self-or yet a set that the year.
	drains.	total - and the way there industrial an appropriate mantheme and in
/i	Solid barriers shall be left below the	It is being followed. Sufficient barriers are left for saving the
	roads falling within the blocks to	surface installation and infra structures as per the statute and
		LU-NAS GUIGOUDOS
/ii	avoid any damage to the roads. No depillaring operation shall be	DGMS guidelines. It is followed.

11	carried out below the	
1	township/colony.	- Paris Laket on the constraints
XXV	/iii A detailed CSR Action Plan shall be	Pool in the second of the seco
	prepared for Cluster III group of	activities are
	mines. Specific activities shall be	mir inickai e-L.
	identified for CSR for the budget of	A detailed project specific CSR Action Plan shall be formulate
	Rs 139 Lakhs per year@ Rs 5/T of	land to this
	coal provided for CSR for 2012-2013	SOCIAL SCIENCES, MUMBAI which is also the focal agency of th
	and Rs 5/T of coal	National CSR Hub.
	and Rs. 5/T of coal as recurring	
	expenditure. The 491.91ha of area	the office of the section of the sec
	within Cluster III ML existing as	
	waste land and not being acquired	TISS, Mumbai has informed that the process of interviewing,
	shall be put to productive use under	Short listing and colortion of D.
	CSR and developed with fruit	()tticore bas bases and the state of the sta
	bearing and other useful species for	
	the local communities. Third party	
	evaluation shall be got carried out	
	regularly for the proper	entrolites and suit are two a statement as noting supplied to will be a
	implementation of activities	AND THE RESERVE TO SERVE THE PROPERTY OF THE P
	undertaken in the project area	A shart be connected.
	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	Section of the second transmission in the second control of the se
	expenditure thereon shall be	
	uploaded on the company website	
	every year. The company must give	n in the American state of the Chamber of Man The Oracle of Self from Self in Self Self Self Self Self Self Se Self-control of the Self-control of the Self-control of Self from Self-control of Self Self-control of Self-con
	priority to capacity building both	
	within the company and to the local	And Markey (And State Control of the
	youth, who are motivated to carry	
	out the work in future. The	
	gap/space available between the	
	entire mine area should be	
	suitably planted with native	25 pressure filter plants of roul cum in
	species. Plantation should also	
	be made in vacant area and along	
	the road side so as to reduce dust	
	pollution.	
xix	Central recreation park with herbal	Reing complied Action has been
	garden should be developed for use	Being complied. Action has already been taken for identification
	of all inhabitants	of land for development of herbal garden for the inhabitants/
XX	The mine water should be	nearby society under the CSR activity of the company.
	treated properly before	Mine water has been channelized through pipelines and through
	supply to the villager	delivery in to the ponds for it is for the community and irrigation
	F	ourposes. Drinking water is being purchased from the Mineral
	A	Area Development Authority (MADA).
	F	urther for the utilization of mine water following actions has

		 Installation of Pressure filters: BCCL has installed 25 pressure filter plants of total capacity of 16 MGD at the cost of Rs. 2.75 crores to meet the drinking water requirements in the area. Further installation of 28 more pressure filters with the capacity of 5 MGD are in the process. An R&D/ pilot project taken up by CIMFR, Dhanbad at Pootki colliery for mine water treatment for its utilization for drinking water is also being supported. CIMFR has further requested to BCCL for Rs 20 Lakh/annum for its maintenance and bottling of purified drinking water. This fund will be met through CSR fund of BCCL BCCL is in the process of entering into multiple Patents of this scheme and technology with CIMFR for further replication of this scheme in other mines to use mine water fully. There is a water filter plant already in operation at Sinidih. After filtration, drinking water is being supplied to different colonies and villages for drinking purposes.
xxxi	Details of transportation, CSR, R&R and implementation of environmental action plan for each of the clusters-III should be brought out in a booklet form within a year and regularly updated.	It shall be complied.
xxxii	Central recreation park with herbal garden should be developed for use of all inhabitants.	Being complied. Action has already been taken for identification of land for development of herbal garden for the inhabitants/ nearby society under the CSR activity of the company.
xxxiii	The mine water should be treated properly before supply to the villager.	Mine water has been channelized through pipelines and through delivery in to the ponds for it is for the community and irrigation purposes. Drinking water is being purchased from the Mineral Area Development Authority (MADA). Further for the utilization of mine water following actions has been taken by the company: 1. Installation of Pressure filters: BCCL has installed 25 pressure filter plants of total capacity of 16 MGD at the cost of Rs. 2.75 crores to meet the drinking water requirements in the area. Further installation of 28 more pressure filters with the
	the second of a maximum of length of the action of the 20 m and shall be prompted to a	capacity of 5 MGD are in the process. 2. An R&D/ pilot project taken up by CIMFR, Dhanbad at Pootki colliery for mine water treatment for its utilization for drinking water is also being supported. CIMFR has further requested to BCCL for Rs 20 Lakh/annum for its maintenance and bottling of purified drinking water. This fund will be met through CSR fund of BCCL 3. BCCL is in the process of entering into multiple

xxxvii	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	Continuous process of the backfilling has been adopted. A part of the void will be converted into the water body as specified in EC.
	ther hand State Reliation Control Fear d For roomitoring land use patient and to for post religing land use, a threatening land use, a threatening land use maps, but has satellite in the land use maps, but has been satellite in the land use maps.	 awarded work for 138 houses at Koylanagar Township covering surface area of 14450 sq mts of roof top with total cost of Rs77.36 lakhs. It has been estimated that the system will recharge 13150 cum of water per annum to the ground water. 3. Further approximately 2000 quarters of BCCL under different Areas of BCCL will be taken up in the 2013-14 for Rain Water Harvesting.
	The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	 Installation of Pressure filters: BCCL has installed 25 pressure filter plants of total capacity of 16 MGD at the cost of Rs. 2.75 crores to meet the drinking water requirements in the area. More pressure filters shall be put in to operation. Rain water Harvesting: to catch run-off water in colonies Rain water Harvesting is being done. BCCL has already
xxxvi	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.	No ground water is being utilized for the purpose of industrial use of the water. Mine water has been channelized through pipelines and through delivery in to the ponds for it is for the community and irrigation purposes. Drinking water is being purchased from the Mineral Area Development Authority (MADA). Further for the utilization of mine water following actions has
	treated to meet standards prescribed 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.	through BCCL own Laboratory at HQ level. The quality of water is within prescribed standards.
xxxiv	Details of transportation, CSR, R&R and implementation of environmental action plan for each of the clusters-III should be brought out in a booklet form within a year and regularly updated. Mine discharge water shall be	It shall be complied. It shall be complied. Presently mine water is being monitored
	pie de la residencia de la constitución de la const	Patents of this scheme and technology with CIMFR for further replication of this scheme in other mines to use mine water fully. 4. There is a water filter plant already in operation at Sinidih. After filtration, drinking water is being supplied to different colonies and villages for drinking purposes.

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	plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and reclaimed with	tellion and be sent country to your grand office.
	plantation and or may be used for pisciculture.	
XXXVIII	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 peizometers. 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	The work of monitoring of ambient environment including ground water monitoring has already started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad having CSIR laboratory recognized under the EPA Rules. Fixing up the monitoring stations for this purpose is in process with Jharkhand State Pollution Control Board.
	water table indicates a declining trend.	
xxxix	ETP shall also be provided for workshop, and CHP, if any. Effluents shall be treated to confirm to prescribe standards in case discharge into the natural water course.	Construction of ETP/ Oil grease Trap is being taken up
xl	The location of monitoring stations in the Jharia coalfield should be finalized in consultation with Jharkhand State Pollution Control Board.	It will be complied.
xli	For monitoring land use pattern and for post mining land use, a time series of land use maps, 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 MOEF and its Regional office at Bhubaneswar.	Presently a time series map of vegetation cover in the Jharia Coal Field is being carried out through CMPDI Ranchi using satellite imagery for every 3 years. The last map of the year 2010-11 has been uploaded on the official website of company. 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 1:5000."
xlii	A Final Mine Closure Plan along with details of Corpus Fund shall be	CMPDI, Ranchi has prepared "Final Mine Closure Plan along with a Plan for Habitat Restoration and with details of Corpus Fund".

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	submitted to the Ministry of	Which will be sent shortly to your good office.
	Environment & Forests five year	Training the second of the sec
	before mine closure for approval.	
. 1	Habitat Restoration Plan of the mine	
	area shall be carried out using a mix	
	of native species found in the	A least defined Corpo. of Environment-Policy Los Shearly bean.
1	original ecosystem, which were	and disease, and approved by the Board of Streeturg. This is also
0.5	conserved in-situ and ex-situ in an	concern to the transport of the form
	identified area within the lease for	and the second s
	reintroduction in the mine during	
	mine reclamation and at the post	
	mining stage for habitat restoration.	
xliii		CMPDI, Ranchi has prepared "Final Mine Closure Plan along with
XIIII	A Final Mine Closure Plan along with	a Plan for Habitat Restoration and with details of Corpus Fund".
\	details of Corpus Fund shall be	Which will be sent shortly to your good office.
4.	submitted to the Ministry of	The state of the s
	Environment & Forests five year	
	before mine closure for approval.	
	Habitat Restoration Plan of the mine	
	area shall be carried out using a mix	V.
	of native species found in the	thin contains the company to determine the con-
,	original ecosystem, which were	sear of the consented level to mine have phoenty as a con-
	conserved in-situ and ex-situ in an	
	identified area within the lease for	
	reintroduction in the mine during	
	mine reclamation and at the post	
	mining stage for habitat restoration.	÷
	the mining plan and post-mining	•
	plan, closure plan should be	g a terminal
	prepared and submitted to the	
	Ministry.	
xliv	A separate management structure	A full-fledged Environment Department, headed by a HoD
	for implementing environment	(Environment) along with a suitable qualified multidisciplinary
	policy and socio-economic issues	
	and the capacity building required in	team of executives (12 nos.) which includes Environment, Mining,
	this regard.	Excavation, Civil, Survey ,Electrical & mechanical, Forestry
	Sengral Constitues by SAGEEs	disciplines executives and technicians (4 nos.) has been
		established in Headquarters. They are also trained in ecological
		restoration, sustainable development, rainwater harvesting
	South Analy to the Host to Charles and	methods etc. At the project level, one Executive in each area has
	Market and agreement and the second	also been nominated as Project Nodal Officer (Environment) and
	and the state of t	is also entrusted with the responsibility of compliance and
	Mindelson of Statement of the	
4	weet a sity of the second and second on the	observance of the environmental Acts/ Laws including
		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
	The state of	N .
1	to the second ser occupies	Areas and reports to the Director (Technical) and in turn he
1	hair young the arrival shall the beauty	reports to the CMD of the company.
	successful of the core zone in	The team is multidisciplinary and very much motivated under the
	se set out tuffer zine for	guidance of company's Director (Technical) and CMD. Further
	Marie Company of the	
		capacity building at both corporate and operating level is being

1	I mentioring Location of the distinct	done.
dv	Corporate Environment Responsibility:	
	a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	A well defined Corporate Environment Policy has already been laid down and approved by the Board of Directors. This is also posted on BCCL website.
	b) 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.	Complied.
	c) 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.	A hierarchical system of the company to deal with environmental issues from corporate level to mine level already exists.
	d) 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 Board of Directors of the company and/or shareholders or stakeholders at large.	Being complied.
В	General Conditions by MOEF::	Temporal of monitoring records a strong to process a supplied that Polledon Control Report in Sales portable in the control report in Sales portable in the control of the
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Being followed.
•	No change in the calendar plan of production for quantum of mineral coal shall be made.	Being followed. Production is being done well within the peal production capacity as per EC.
iii	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	Establishment of Four ambient air quality monitoring stations is already in process and Jharkhand State Pollution Control Board is being pursued in this regard. The work of monitoring of ambient environment has already started by Central Institute of Mining & Fuel Research (CIMFR)

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	monitoring. Location of the stations	Dhanbad having CSIR laboratory recognized under the EPA Rules.
	shall be decided based on the	Biddinas of be only without a discoy mutaga gall
	meteorological data, topographical	I Prohibited Mate Politica Control property and the second second
	features and environmentally and	
	ecologically sensitive targets in	I The special recommendation and antifers envelopment has seen
	consultation with the State Pollution	Their test by Control Institute of Atlantag S. Fuel Research (CNA) 31
	Control Board. Monitoring of heavy	or Change I have a Com December recognized under the EPA Rules
	metals such as Hg, As, Ni, Cd, Cr ,etc	A control of will result assessment & recordinated militarities to be these
	carried out at least once in six	
	months.	
iv	Data on ambient air quality (PM ₁₀ ,	Establishment of ambient air quality monitoring stations is
	PM 2.5, SO ₂ and NO _x) and heavy	already in process and Jharkhand State Pollution Control Board is
	metals such as Hg, As, Ni, Cd, Cr and	being pursued in this regard.
	other monitoring data shall be	
		The work of monitoring of ambient environment has already
	regularly submitted to the Ministry	started by Central Institute of Mining & Fuel Research (CIMFR),
	including its Regional Office at	Dhanbad having CSIR laboratory recognized under the EPA Rules.
	Bhubaneswar and to the State	Presently ambient air quality is being monitored through BCCL
	Pollution Control Board and the	own Laboratory at HQ level. Id. 2 % 1 kg. 1 mg. 2 %
N-	Central Pollution Control Board	Own Laboratory at Tiglievel.
	once in six months. Random	Smithfladdause Cae Enargh (RNE, und Polichit al new) at
	verification of samples through	least action (1995) or all the perspires in an exist, or a second
		I Dit it that that the entire Gersent of Albert Lake and Idia yet enter
	analysis from independent	
	laboratories recognised under the	
	EPA rules, 1986 shall be furnished as	e e
	part of compliance report.	
V	Adequate measures shall be taken	Being Complied.
	for control of noise levels below 85	
	dBA in the work environment.	
	Workers engaged in blasting and	
	drilling operations, operation of	
	HEMM, etc shall be provided with	Av field Research English and the second
	ear plugs/muffs.	Street description with the control of the control
vi	Industrial wastewater	Establishment of monitoring stations is already in process and
	(workshop and wastewater	Jharkhand State Pollution Control Board is being pursued in this
	from the mine) shall be	regard.
	properly collected, treated so as	A SERVICIONAL LEGACOLINAC SERVI POLITICIONE DE LA
	to conform to the standards	The work of monitoring of ambient environment has already
	prescribed under GSR 422 (E) dated	been accepted by Central Institute of Mining & Fuel Research
	19 th May 1993 and 31 st December	(CIMFR), Dhanbad having CSIR laboratory recognized under the
	1993 or as amended from time to	EPA Rules.
	time before discharge. Oil and	Presently mine effluent is being monitored through BCCL own
	grease trap shall be installed before	
	discharge of workshop effluents.	Laboratory at HQ level. The result of analysis report is enclosed as
	and a working children.	Annexure-E.
vii	Vehicular emissions shall be kept	CON TORONTO BUSINESS AND
	under control and regularly	Being Complied.
	monitored. Vehicles used for	Arona and carries in the francisc street and and
	transporting the mineral shall be	
	covered with tarpaulins and	4. P. M. STANE S. D. M. STANE SERVICE STANE STAN

	optimally loaded.	The team is majority or allows and
viii	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.	Jharkhand State Pollution Control Board is being pursued in this regard. The work of monitoring of ambient environment has already started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad having CSIR laboratory recognized under the EPA Rules.
ix	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.	Being Complied. A separate full-fledged Human Resource Development Deptt. Is conducting regular training programme on these issues. Apart from this Vocational Training Centers are existing in all the Areas of BCCL which provide periodical training on the safety and occupational health issue to each of the workers working in the mines.
X	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.	Initial Medical Examination (IME) and Periodical Medical Examination (PME) of all the personnel is carried out as per the Statutes and Director General of Mines Safety (DGMS) guideline.
xi	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.	A full-fledged Environment Department, headed by a HoD (Environment) along with a suitable qualified multidisciplinary team of executives (12 nos.) which includes Environment, Mining, Excavation, Civil, Survey ,Electrical & mechanical, Forestry disciplines executives and technicians (4 nos.) has been established in Headquarters. They are also trained in ecological restoration, sustainable development, rainwater harvesting methods etc. At the project level, one Executive in each area has also been nominated as Project Nodal Officer (Environment) and is also entrusted with the responsibility of compliance and observance of the environmental Acts/ Laws including 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.

	subsequently must also be uphaded on the contiguators websited to the contiguators websited at the contiguators and the contiguators are continued to the contiguators and the contiguators are continued to the contiguators and the contiguators are continued to the contiguators are continued to the continued to t	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.
xii	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.	A separate fund under the environmental protection measures has already been allocated.
xiii	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	It has been complied. Advert in local newspaper is enclosed as annexure-G.
xiv	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.	Complied.
XV	A copy of the environmental clearance letter shall be 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.	Complied.

/		
SVA .	subsequently, shall also be	Specifical and the second seco
0.1	uploaded on the company's website	
	along with the status of compliance	
	of EC conditions and shall be sent to	
	the respective Regional Offices of	
	the MoEF by E-mail	
C	Other Conditions by MOEF:	
	PRESERVE EXPLISION CHORUS SO AS to	
i	The Ministry or any other	Agree.
	competent authority may stipulate	
	any further condition for	
	environmental protection.	
ii	Failure to comply with any of the	Agree.
	conditions mentioned above may	
	result in withdrawal of this	
	clearance and attract the provisions	
	of the Environment (Protection) Act, 1986.	
iii		
1111	The above conditions	It is being complied.
	will be enforced	
100	<i>inter-alia</i> , under the	Section of the Control of Section Sect
	provisions of the	tring costabled.
	Water (Prevention & Control of	
	Pollution) Act, 1974, the Air	
	(Prevention & Control of Pollution)	
4	Act, 1981, the Environment	
	(Protection) Act, 1986 and the	
	Public Liability Insurance Act, 1991	
estil.	along with their amendments and	
	Rules. The proponent shall ensure	andre and secretarists.
	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	
iv	to the mining operations. The Environmental Clearance is	4
	subject to the outcome of the Writ	Agree.
	Petition filed by M/S Bharat Coking	
K12"	Coal Limited (BCCL) in response to	savag Camplied.
	the closure orders issued by the	And the same of th
	Jharkhand State Pollution Control	
	Jharkhand High Court	
	Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court.	

£		Complied
xvi	The clearance letter shall be	Complied.
	uploaded on the company's	
	website. The compliance status of	ELL STEET Brising Coal Line and
	the stipulated environmental	To \$40 / A SlebalGary of Coult troop (
	clearance conditions shall also be	DS 2 Case Case HOD/Environment)
	uploaded by the project authorities	The state of the s
	on their website and updated at	
	least once every six months so as to	
	bring the same in public domain.	Company of the contract of the
	The monitoring data of	Manager a lawrest red
	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	in Creating 1 to 1
	also be displayed at the entrance of	Drawn and an artist of the second of the sec
12	the project premises and mine	yin Dadaga ya Sattaji
- 1,	office and in corporate office and on	
	company's website.	
xvii	The project proponent shall submit	
7411	six monthly compliance reports on	Being complied.
	status of compliance of the	an court was as a content of day and on the second
	stipulated environmental clearance	
	conditions (both in hard copy and in	
	e-mail) to the respective Regional	Law and rediscipling Communication by SCCL was letter to
	Office of the Ministry, respective	Al-base that are
	Zonal Office s of CPCB and the SPCB.	and white Country using themsal inflormed data - for a country
xviii.	The Regional Office of this Ministry	Shall be complied.
	located at Bhubaneswar shall	Markette territoria de la compania del compania del compania de la compania del compania del compania de la compania del c
		Seri surface serior services in the series and services the services of their services.
	monitor compliance of the	
	stipulated conditions. The Project	CCL two approved both the by the set of a phone You are
	authorities shall extend full	the leavester for this approunting in 19 and only in the chall of the
	cooperation to the office(s) of the	Black to place the week states and it is a more state or any
	Regional Office by furnishing the	
	requisite data/	
	information/monitoring reports.	Y tairu laiftu wy
xix	The Environmental statement for	Being Complied.
	each financial year ending 31 March	
	in Form – V is mandated to be	
	1507-030 97 175 S 3555-0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	submitted by the project proponent	
	for the concerned State Pollution	
	Control Board as prescribed under	
	the Environment (Protection)	
	Rules,1986,as amended	

Annexure-A

BCCL



Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)
Office of HOD(Environment)
Koyla Bhawan, Koyla Nagar
Dhanbad 826005

Ref. No.BCCL/HOD(Env)/F-MP/13/ G10

Dated 21.05.2013

To,

Dr Vinod Kumar,
Group Head, Geosciences group
Sc/Eng-SG
National Remote Sensing Centre
Indian Space Research Organization
Dept of Space,Govt Of India,Balanagar,Hyderabad
Andhra Pradesh-500625

Subject: Regarding proposal for "Delineation of Surface Coal Fire and associated Land Subsidence in Jharia coalfield, Jharkhand using satellite based remote-sensing techniques at a cost of Rs 19.70 Lakhs submitted by e-mail on 15.05.2013

D/Sir,

We are in receipt of the aforesaid proposal, sent by email on 15.05.2013, covering two components of the scope of study and subsequent communication by BCCL vide letter no. BCCL/D (T) Op/F-Env/2012/148(A) dated 11.02.2013:

Part 1: Coal Fire mapping of Jharia Coalfield using Thermal Infra-red data – for a cost of Rs. 6,70,721=00. The study is proposed to be completed within 8 months and

Part 2: Land subsidence mapping of Jharia Coalfield using Interferometric SAR data for a cost of Rs. 12,98,571=00. The study is proposed to be completed within 12 months.

Competent authority of BCCL has approved both the two components as above. You are therefore requested to submit your invoice for 90% amounting to 17.73 Lakhs, of the cost of the project Rs 19.00 Lakhs at the earliest for placing the work order and releasing the 90% amount.

Thanking you,

Yours faithfully,

HOD (Environment)

Annexure-B

1. CALENDER PROGRAMME FOR OB DUMPING

Backfilling programme : (in M cu. m)

YEAR	New Akashkinari OCP	Block- IV OCP	TOTAL
2014-15	1.88	5.06	6.94
2015-16	2.76	5.12	7.88
2016-17	3.52	5.24	8.76
2017-18	4.04	5.48	9.52

2. GREENBELT DEVELOPMENT PROGRAMME

Plantation Programme

	Year		rry land ndoned)		e Quarry Lrea	out	umped side ry area	Bui M Infras	rvice Iding/ Iline tructure I dump		en belt nd OCP	Barro	en Land	Total Plantatio	Total Area Under Additional	Total Plantati on cost @ Rs.5510
		Area (ha)	Trees/ sapling s	Area (ha)	Trees saplings	Area (ha)	Tree/ saplin gs	Area (ha)	Trees/ saplin gs	Area (ha)	Trees/ sapling s	Area (ha)	Træs/ sapling s	**	Plantation (Ha)	1/Ha (in Rs.Lakh s)
	1	10	25000	18	45000	6	15000			25	62500	2	5000	152500	61	33.61
	2	10	25000	18	45000	6	15000			25	62500	2	5000	152500	61	33.61
	3	10	25000	18	45000	5	12500		5	25	62500	2	5000	150000	60	33.06
***************************************	4	10	25000	18	45000	> 4	10000			25	62500	2	5000	147500	59	32.51
Businessania	5	10 -	25000	18	45000	4	10000			15	37500	. 2	5000	122500	49	27.00

Annexure-C

5. FIVE YEAR ECOLOGICAL-RESTORATION PLAN OF BCCL

Total	Hectare	2	15.00	17.00	51.63	55 16	00.10	52.49	E1 73	27.16	226.00
ſM:	CLUSTER- XI, XIII &XIV				4.20	•				1	A 20
5	ਹ ਂ	XVII		000	3.00	2.00		2.00	2 00	20:1	15.00
a	CLUSTER-X	* * * * * * * * * * * * * * * * * * *	1	0.73	0./3	3.56	0 40	0.43	3.22	1	22.00
Basta-k Lodna	VIII CLUSTER-			3 20	1	4.80		0.0	3.5		15.00
Basta-k			1	2 00 10 00	10.01	10.00	7 50	00:1	7.50	L	35.00
PB	R-VI, V		1	2 00	2		1		•	000	7.00
Kusu	CLUSTER- VI, VII			2.00		9.00	6.00		00.9	20.00	20.00
Sijua	CLUSTE R- V	000	8.00	1	000	7.00	2.00	000	7.00	1100	14.00 20.00 2.00 35.00
Katras	CLUSTER-		-	3.40	00 7	4.00	00.9	000	8.00	22.00	-
Barora Block-II Govind pur	CLUSTE R- III		8	3.00	00 /	1.00	3.00	00	2.00	1500	00:01
Block-II	CLUSTER- I & II			3.60	7.40	01.	00.9	00	0.00	39.80 22.00	
Barora	CLUSTE	7 00		2.50	10 80	00.01	10.00	9 50	0.00	39.80	
Year	6	2012-13	0 0	2013-14	2014-15 10.80		7015-16	2016-17 950	11 0101	Total	

2.Eco - Restoration to be done through Nodal agency of Centre of Excellence programme of MoEF. (2013-14)

Cluster Biscrict. Block-III Block-	No.	Cluster	Name of Area	Name of the Project/Site	Location	Area in Ha	Availability of water
Cluster IV Block-II. Block-II. Block-II. Block-II. Block-II. Block-II. Block-II. 2.00-1.60 Cluster IV Katras. AKWMIC OCP. 1. Near Explosive Magazine. 3.40 3.40 Cluster IV Kusunda. Khas Kusunda Ghanudilh 7.00a 2.00 Cluster IX Lodna. North Tisra & Beside temporary R & R Site / In South Tisra 1. OB dump of water pumping 8.73 Cluster IX Lodna. Murulidih 1. OB dump of water pumping 8.73 Cluster IX Lodna. South Tisra Total 8.73 Cluster IX W.J.Area Murulidih A.20 XIII Colliery Total 4.20 Sulamdih). Bastacola. South Jharia/ above the Bank of Chatkari Jore 10.00 Cluster VII R.O.C.P R.O.C.P Embankment of Junkundar 5.00 Cluster VIII OCP. Abundant Embankment of Junkundar 5.00	1.	Cluster II	Barora.	Phularitand	Adjacent of KKC – Link siding	2.50	/Water will be provided from adjacent Incline(about 150m)
Cluster I Block-II. Block-II. Beside the Explosive Magazine.		5			Total	2.50.	
Cluster IV Katras. AKWMC OCP. 1. Near Explosive Magazine. 3.40	2.	Cluster II	Block-II.	Block-II.		2.00+1.60	Water will be provided from adjacent Pipeline which is feeding water to filter plant(about 150m)
Cluster IV Katras. AKWMC OCP. 1. Near Explosive Magazine. 3.40 Cluster VI Kusunda. Khas Kusunda Ghanudih 2.00 Cluster IX Lodna. North Tisra & Beside temporary R & R Site / In Font of Work shop. Total 2.00 Cluster IX El (Bhowra & Bhowra(South) Isra & Gouth Tisra & Font of Work shop. Total 8.73. Cluster X El (Bhowra & Bhowra(South) 3 pit OCP Sudamdih). I. OB dump of water pumping Plant of Bhowra(South) 3 pit OCP Sudamdih). 8.73. Cluster VII W.J. Area Murulidih 4.20 XIII Colliery Total 4.20 R.O.C.P R.O.C.P 10.00 Cluster VIII R.O.C.P 10.00 R.V.II R.O.C.P 10.00 Cluster C.V.Area Junkundar Abundant Embankment of Junkundar 5.00 XVII O.C.P. 5.00					Total	3.60.	
Cluster VI Kusunda. Khas Kusunda Ghanudih Total 3.40	3.	Cluster IV	Katras.	AKWMC OCP.	1. Near Explosive Magazine.	3.40	Water will be provided from adjacent Pipeline which is feeding water to
Cluster VI Kusunda. Khas Kusunda Ghanudih Total 3.40				111			adjacent colony, (about 450m)
Cluster VI Kusunda. Khas Kusunda Ghanudih Total 3.40					in the second se		
Cluster VI Kusunda. Khas Kusunda Ghanudih 2.00 Cluster IX Lodna. North Tisra & Beside temporary R & R Site / In South Tisra E L (Bhowra & Bhowra(South) Tisra Front of Work shop. Total 6.00 Cluster X EJ (Bhowra & Bhowra(South) Tisra Bhowra(South) Tisra Total 8.73. Cluster X Sudamdih). AL OB dump of water pumping plant of Bhowra(south) 3 pit OCP 8.73. Cluster VIII Colliery Total 4.20 Cluster VIII Bastacola. South Jharia/ above the Bank of Chatkari Jore 10.00 & VIII R.O.C.P R.O.C.P 10.00 XVI OCP. 5.00 XVI OCP. 5.00					Total	3.40	
Cluster IX Lodna. North Tisra & Beside temporary R & R Site / In 5.00.	4	Cluster VI	Kusunda.	Khas Kusunda	Ghanudih	2.00	Water will be provided from nearby CHP water spraying point (about 350m)
Cluster IX Lodna. North Tisra front of Work shop. Total 6.00 Cluster X EJ (Bhowra & Bhowra(South) is and midih. 1.08 dump of water pumping plant of Bhowra(south) a pit OCP 8.73. Cluster VIII W.J.Area Murulidih colliery Total 4.20 Cluster VIII Bastacola. South Jharia/ above the Bank of Chatkari Jore 10.00 Cluster VIII R.O.C.P 10.00 XVIII Abundant Embankment of Junkundar 13.00 XVII OCP. 5.00		in.			Total	2.00.	
Cluster X EJ (Bhowra & Bhowra(South) 1. OB dump of water pumping plant of Bhowra(south) 3 pit OCP plant of Bhowra(south) 4 pit OCP plant of Bhowra(south) 4 pit OCP plant of B	5.	Cluster IX	Lodna.	North Tisra & South Tisra		6.00	Water will be provided from proposed R&R site(about 200m)
Cluster X EI (Bhowra & Bhowra(South) Blant of Bhowra(south) 3 pit OCP Sudamdih). 1. OB dump of water pumping plant of Bhowra(south) 3 pit OCP					Total	00.9	
cluster W.J.Area Murulidih 4.20 XIII Colliery Total 4.20 cluster VII Bastacola. South Jharia/ above the Bank of Chatkari Jore 10.00 & VIII R.O.C.P 10.00 Cluster C.V.Area Abundant Junkundar 5.00 XVI OCP. 18.00	9.	Cluster X	EJ (Bhowra & Sudamdih).	Bhowra(South)	1. OB dump of water pumping plant of Bhowra(south) 3 pit OCP	8.73.	Water will be provided from river side pump (already in operation). About 800m pipe is require.
cluster W.J.Area Murulidih 4.20 XIII Colliery Total 4.20 cluster VII Bastacola. South Jharia/ R.O.C.P above the Bank of Chatkari Jore 10.00 & VIII R.O.C.P 10.00 10.00 Cluster C.V.Area Abundant Abundant OCP. Embankment of Junkundar OCP. 5.00		en a			Total	8.73.	
cluster VII Bastacola. South Jharia/ R.O.C.P R.O.C.P Cluster Cluster Cluster Cluster C.V.Area Abundant Cluster XVI Cluster C.V.Area Junkundar O.C.P. 10.00 10.00 10.00 118.00	7.	cluster	W.J.Area	Murulidih colliery	in the later	4.20	Water will be provided from adjacent Pipeline which is feeding water to adjacent colony. (about 500m)
cluster VII Bastacola. South Jharia/ above the Bank of Chatkari Jore 10.00 R.O.C.P R.O.C.P Abundant Embankment of Junkundar 5.00			1 13		Total	4.20	icat cade
Cluster C.V.Area Abundant Embankment of Junkundar 13.00 XVI 5.00	∞	cluster VII	Bastacola.	South Jharia/ R.O.C.P		10.00	Water will be provided from adjacent jore or a bore well may be installed.
Cluster C.V.Area Abundant Embankment of Junkundar 13.00 XVI 5.00		rnar Hive	4			10.00	
OCP. 5.00	9.	Cluster	C.V.Area	Abundant	Embankment of Junkundar	13.00	Water will be provided from pond
18.00		NX.		Junkundar OCP.		5.00	Water will be provided from pond (Integrated Farming)
		ja:			Ve.	18.00	

Annexure- E

CSR ACTIVITIES OF BCCL

Bharat Coking Coal Limited (BCCL) is committed to good corporate citizenship and makes constant efforts to build and nurture long lasting relationships with members of the society in general and it's peripheral communities in particular.

BCCL is taking up activities from the HQ level and through its administrative areas for the implementation of CSR activities. For this purpose A CSR cell is functioning which is headed by General Manger(Welfare) under the direct control of Director(Personnel) of the company.

The CSR activities are specific to the village, depending on the need assessed for the people by local Hon'ble M.Ps and M.L.As. Further as suggested by the MOEF Committee, a detailed project specific CSR Action Plan shall be formulated and for this purpose, BCCL has approached TATA INSTITUTE AND SOCIAL SCIENCES, MUMBAI which is also the focal agency of the National CSR Hub. CSR Action Plan shall be formulated for the whole Jharia Coalfield and also project-wise which will include need-based/ stakeholder base line survey, monitoring, evaluation, auditing, etc.

The CSR activities presently being done by BCCL

- To meet the acute shortage of drinking water in peripheral villages' drinking Water is provided through deep borewells, tubewells, pumps/motors, in the peripheral villages of BCCL. Water supply through pipeline, through water tanker is provided also to the villages.
- Education: BCCL adopts a multi-pronged approach to promote quality education in backward
 areas. The measures taken by BCCL comprise Construction, Extension, and Renovation of school
 buildings etc are done to promote quality education in the nearby villages. BCCL is Extending
 financial aid for educational facilities to 83 nos. Private Committee Managed schools. Measures
 are taken to promote women literacy and carrier development.
- Health Care: BCCL Conducts medical/health camps for dwellers of peripheral villages for rendering
 free medical consultancy. CSR Clinics, wellness clinics, artificial limbs centers are organized for the
 benefit of the needy section of the society.. Mobile medical vans are deployed as special
 arrangement for medical services. AIDS awareness camps are organized as special drive to develop
 awareness and to render free consultancy.
- Occupational health: awareness programme are organized.
- Other Welfare Activities: this includes Construction / renovation of Community Halls, construction / repair of roads, construction of Health-sub centres, construction of drain, construction of Chhat Ghat in the ponds, Construction of Boundary wall, providing Choupal for community gatherings, Installation of road side Water Kiosks during summer etc.
- Mashla Chakki centres: Mashla Chakki centres are established with machines to promote self employment.
- Blankets: During winter, Blankets are distributed among poor section of the society.

- Sports & Cultural: Various activities are organized to propagate sports and cultures. Sports/games items and instruments are also provided. To promote sports, children parks are constructed.
- Village adoption: Lahbera A SC/ST village in Dhanbad has been adopted for its all round development and a number of development activities have been carried out.
- Skill development training programs by BCCL for Project Affected persons, fire affected persons and nearby communities: Bharat Coking Coal Limited (BCCL) has signed a Memorandum of Understanding with Construction Industry Development Council (CIDC), New Delhi, a body promoted by Planning Commission, on 20.03.2012 for employment linked training program in the Construction Sector for poor and downtrodden people of the Jharia coalfield including project affected persons and fire affected people. BCCL in coordination with the CIDC is identifying the project affected persons to undergo the required training programs to be conducted by CIDC.

In this regard BCCL will bear the training cost @ Rs.42960/ per candidate which includes all expenses including lodging and boarding and after training the CIDC has to ensure a minimum of 75 % of sustainable placement for a period of six months. In case of placement below 75%, pro rata payment is to be made. All training are mandatorily residential. In the year 2012-13 5000 youths will be trained and in the subsequent years no. Of trainees will be scaled up @ 15% per annum:

ANNEXURE - G

औठ कांस्स् ⁸ क्या मुगील गरनाला अभित कुमार इतिया सीए झरिया के लोगों ने कहा भारत कोकिंग कोल लिमिटेड (कोल इण्डिया लिमिटेड का एक अंग) आमं बजट से जनता को राहत नहीं मिली है। बरोजगार चुक्कों को रोजगार का अससर नहीं मिला है। बजट ने राजी को निरास किया स्वति । ते से तो प्रश्न देश प्रश्नांक प्रतेशक हो। अहं तेरी ३ 131498 किया वर्ष १८ 23 2013 की वर्ष प्रश्न प्रश्न प्रति हो। अहं तेरी ३ 131498 किया वर्ष प्रति हो। अहं तेरी ३ 131498 किया वर्ष प्रति हो। अहं तेरी ३ तेरावर १ 113-131498 किया वर्ष प्रति तेरावर वर्ष हो। अहं तेरी ३ तेरावर १ 113-131497 विश्वास देश उठ 2013 को वर्ष हो। अहं तेरी ३ तेरावर १ 113-131497 विश्वास देश उठ 2013 को वर्ष हो। अहंता के वर्ष हो। अतंत्र तेरी ३ तेरावर १ 113-131497 विश्वास देश उठ 2013 को वर्ष हो। अहंता के वर्ष हो। अहंता के वर्ष हो। अतंत्र तेरी ३ तेरावर १ 113-131498 किया वर्ष हो। अहंता वर्ष हो। अहंता तेरावर हो। अहंता हो। है। इसका खमियाजा चुनाव में कोग्रेस को भगतना प्रहेगा। संजीव शिह, संयुक्त गहामंत्री बनास) बजद कही से सांस्थाय नहीं हैं। निरम्याजनक बजद हैं। आम जनता पर बोद्ध बढ़गा ! उद्योग खोद्धने पर कोई व्यान नहीं दिया गया है। एसके बढ़गी ! क्वीय उपाध्यक्ष सींद्र भारत कोकिंग कोल लिमिटेड (कोल डॉएडया लिमिटेड का एक अंग) सभी सन्ने हैंना क्ष्मीयकों को जब स्विक विक्रमां करते हैं कि किसीनिदेश ८० (भी) सारा कार्किस कोर्क विभिन्देश का कार्क (Chretor) विभागें 62 खाने एवं 82 स्वारीक स्विक्शित हैं, को प्रवीक्ताएं स्वेत वैक्षाया के हास प्रविक्षण सकता (Environmenta) Chairance) प्रसुप्तिका जा पुरुष है। पत्र के द्वारा प्रविक्शन प्रकार है (Evident Manual Charanters) 188

पत्र के द्वारा प्रविक्शन कर है है (Charles) कि प्रविक्ष कर के द्वारा प्रविक्ष कर के दिल्ला क आम बगद में वेरोजनारी अम केन्द्र म बराजनारा के लिए कुछ नहीं किया गया। आम लोगों पर बोडा लादा गया विद्यालक पासवान, माक्रमा Figs (Cleaner) and west स्मीकृति आद्या संस्था एवं विश्व मे-11015/95/ 2009-12 11 (एम) दिमांबर : 6 फारकी 2013 कांग्रेस ने जनता की निसंश किया है। जनता #-11015/35/ इस बार आम बजर कर 2011-1ए 11 (एम) दिसंबर: 6 फलवरी 2013 वी-11015/213/ नवाब केलत से देखें। गुनिस्ताल संग्रहणांकमा अमें बजह जनावरीशी और महंगाई बदाने वाल है। आंकड़ों के जहार में पूर्वाय ने कसा कर जनाव की दिन्धीमत किया है। राजकुमार आखान, भागवा नेता ज-11015/213/ 2010-19: 11 (एस) विशेषाः 6 पञ्चमी 2013 ज-11015/212/ 2010-19: 11 (एस) विशेषः 6 पमक्षी 2013 आम काट से जनता की उत्तरी सहत नहीं मिलेगी जितना होने वाले चुनाइ को स्थापन सेनाम ने उम्मीद तमा रखी थी। क-11019/01/ 2011-1ए, 11 (एम) दिलांब्ह : 11 प्रस्थाते 2013 9-17015/238/ वीं , जेके सिन्हर, निदेशक आकृष्यपुत 2010-15, 11 (गम) दिलंक : 6 मामगी 2013 बजद संतुतित है। लेकिन आम जनता को ध्यान में नहीं रहा। महा है। जनता को निरामा हाथ लगी है। अनुम साव, पार्षद के 11015/380/ 2010-1ए 11 (एम) विज्ञास (6 करवरी 2013 अस बजद का बोझ जनता के सिर पर प्रदा है। जनता को कोई सहस नहीं मिली है। ये-1:015/185/ 2010-10, 11 (एम) दिलोका: 6 फलकी 2013

साजया एक की प्रतिनिधि इसलांड शक्त प्रतुपन निकास को है के पास का पेकालक को केकार्जुट "http://envior.nic.in" और यह को "http://www.bcci.gov.in" या के देखा आ कुकता है।

बजट से महंगाई बद्धेगी। यह बजट वोट को प्रभावित करनेवाला कित

हरीय जोशी, अधिवस्ता

मनी बिदबरम् का आस्त्रिये बज्द कहलापुमा । कादिर असारी, व्यवसायी



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विकिथन प्रकार की है

विद्युत (मामान्य) विभाग के लिये खुली निर्धेवार समर्दे से तकतीकी विशेषक्रमा विशोध समान एजेंसियों / सर्वेदकों से मुहरबंद खुली निर्वेदाये निविता थः इ.एव./41/खूनी/2012-2011 चनवाद एवं बरकावाना के क्रीवित जिले ने प्रकार पर्वित का 2016/234/- क्रम थं ३ निविदा प्रकार कर्म सं- ६ जावाना शक्ति का 20 240/- अन निकिटा सं . इ.स्य./42/खूली/2012-2015 एवं तरा को नवे प्रदूप साईग के बदलाव एवं प्रदूष के प्रावधान से नवधित वैद्युतिक कार्य । क्रम सं सं . ३ निवेदा प्रणात का नृत्य (क्रमाविदेश) : क्रम सं प्रमापना अवस्थि

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राजस्थान राज्य प्रदूषण नियन्त्रण मण्डल 18, आजाद नगर, पन्नोधाय सर्किल, भीलवाहा

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