## BHARAT COKING COAL LIMITED

A Subsidiary of Coal India Limited

## भारत कोकिंग कोल लिमिटेड

(कोल इण्डिया लिमिटेड का एक अंग)

Office of the Addl. General Manager P.B.Area, Post – Kusunda, Dist-Dhanbad (Jharkhand

Ref.No.BCCL: PBA/A.G.M/2014/97\_

Date:- 06.05.201

To,

The Director (S)

Ministry of Environment & Forest, Govt. of India

Eastern region Officer

A/3, Chandrashekharpur,

Bhubaneshwar - 751023

Subject: Six monthly Compliance report for the period from 1

April to 30<sup>th</sup> September'2014 in respect of Cluster VII group of mine
of Kusunda Area & P.B.Area.

Dear Sir,

Kindly find enclosed herewith six monthly Compliance report for the period from 1<sup>st</sup> April to 30<sup>th</sup> September'2014 in the respect of Cluster VII group of mines of Kusunda Area & P.B.Area.

Hope you will find the same in order.

Encl: As above:

Your faithfully

Addl. General Manager
Additional Barea Manager
POOTKEE BALIHARI ARE
B.C.C.L. DHANBAD

## **COMPLIANCE OF EC CONDITIONS of CLUSTER-VII**

S1.	A. Specific Conditions by	Compliance
No.	MOEF:	
i	The maximum production shall not exceed beyond that for which environmental clearance has been granted.	The approved normative production and peak production for Dhansar UG, Dhansar OC, Kusunda OC, Industry UG(closed), Alkusa UG, Ena OC and VOCP under Kusunda Area are 4.157MTPA & 5.405MTPA respectively. The total production of the mines is 3.6204 MT in the year 12-13 and 1.5 MT in '13-'14 (upto Sept.'14) which is well within the limit and Simlabahal Colliery, Hurriladih Colliery and Burragrarh Colliery are within the limit as given in E. Clearance Condition.
ii	The measure identified in the	Master Plan activities are dovetailed with compliance
	environmental plan for cluster VII groups of mine and the conditions given in this environmental clearance letter shall be dovetailed to the implementation of the Jharia Action Plan.	of environmental clearance conditions. The master plan deals with fire control and rehabilitation activities of fire affected areas in the leasehold of BCCL.  By implementing the fire control measures air pollution and emission of Green House Gases (GHGs) from the fire affected areas are being prevented. Further rehabilitation of the families from the fire endangered area to the safe places is being taken-up with the help of State Govt. of Jharkhand.  The Master plan is being implemented for BCCL as
		per the prioritization of fire and rehabilitation activities in approved Master Plan. The brief status of Rehabilitation and Fire control measures are as annexure- E
iii	The proponent shall prepare time - series maps of the Jharia Coalfields through NRSA to monitor and prevent fire problems in the Jharia Coalfields by Isothermal mapping /imaging and monitoring temperatures of the coal seams (whether they are close to spontaneous ignition temperatures) and based on which, areas with potential fire problems shall be identified.	Work has been awarded to NRSC (earlier NRSA). A MoU is to be entered with the NRSC for start of the work .For this purpose, duly signed MOU from our end has been sent to NRSC for necessary processing at their end and to start the work immediately .(Copy enclosed as Annexure-A)  Action is being taken as specified in EC and as per
	Measures to prevent ingress of air (Ventilation) in such areas, to prevent	Jharia Master Plan. Further at Kusunda OC, fire patch is being dug out for the purpose of dealing with fire and combustible materials are extracted out to save

Iv	restart fresh/spread fires in other areas including in mines of cluster VII shall be undertaken.  Underground mining should be taken up after completion of reclamation of Opencast mine area after 13 years.	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.  It shall be complied.
V	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 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).
Vi	The rejects of washeries in Cluster –VII should be send to FBC based plant.  There shall be no external OR dumps. OR	Coal washery does not exist in this cluster at present.
Vii	There shall be no external OB dumps. OB produce from the whole cluster will be 378.86 Mm3. OB from 5 OCP mine shall be backfilled. At the end of the mining there shall be no void and the entire mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter.	In Kusunda Area It Will be Complied as specified in Environmental Clearance condition.  In P.B.Area Working has not approached Combined seams hence there is no Possibility of back filling.
Viii	A detailed calendar plan of production with plan for OB dumping and backfilling (for OC mines) and reclamation and final mine closure plan for each mine of cluster-VII shall be drawn up and implemented.	In kusunda Area Calendar Plant has been Prepared and encloded. Mine closure plan as per guidelines of Ministry of coal is prepared by Regional institute –II, Central Mine Planning and design, Dhanbad and Submitted for approval. The financial provisions required for the implementation of mines closure plan are being kept in account.  In P.B.Area, working has not approached combined seam hence back filling and reclamation is not Possible.
ix	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 stabilized with plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and biologically reclaimed with plantation and or may be used for pisciculture	It shall be complied. Continuous process of the backfilling has been adopted. A part of the void will be converted into the water body, if safety permit with permission from DGMS.  In P.B.Area OCP has not approached combined seam hence this condition cannot fulfilled.
X	Mining shall be carried out as per statuette from the streams/nalas flowing	It is being followed. Embankments have been constructed as specified in EC

	within the lease and maintaining a safe	In Kusunda Area of Cluster VII as
	distance from the Nalas flowing along the	well as P.B.Area.
	lease boundary. A safety barrier of a	well as I.B./Alea.
	minimum 60m width shall be maintained	
	along the nalas/water bodies. The small	
	water bodies in OC shall be protected to	
	the extent feasible and the embankment	
	proposed along water body shall be	
	strengthened with stone pitching.	
Xi	Active OB dumps near water bodies	No OB is being dumped near water bodies.
741	and rivers should be rehandled for	In P.B.Area There is no water body
	backfilling abandoned mine voids.	•
	However, those which have been	near OB dump.
	biologically reclaimed need not be	
	disturbed.	
77''		7, 1, 11, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Xii	Thick green belt shall be developed along undisturbed areas, mine boundary and in	It shall be complied. Yearly plantation is being done
	,	for development of green belts as per EC. Green belt
	mine reclamation. During post mining stage, a total of 794.09 ha area would be	development programme is enclosed as annexure-B.2
	reclaimed. The total additional area under	in respect of Kusunda Area Of Cluster VII
	plantation would be 1165.67 ha (90.78 ha	In P.B. Area there is no Space for
	abandoned quarry area, 516 ha active	Plantation as all land of P.B.Area of Cluster VII falls
	quarry area, 27.31 OB dump outside	under Coal bearing Area.
	quarry area, 38.55 ha service building	Č
	/mine infrastructure area /coal dump etc,	
	395 ha green belt around OCP, 98.5 ha	
	barren area), by planting 2914150 plants at	
	a total cost of Rs 642.20 lakhs.	
Xiii	The road should be provided with	It shall be complied. In Kusunda Area as well as in
	avenue plantation on both side as trees	P.B.Area of Cluster VII.
	act as sink of carbon and other	
	pollutant	
Xiv	Specific mitigative measures identified	Dhanbad Action Plan has been prepared for entire
	for the Jharia Coalfields in the	BCCL and not cluster wise. It is being implemented
	Environmental Action Plan prepared	comprehensively for all the mines of BCCL. Some of
	for Dhanbad as a critically polluted	the salient actions of this cluster are as under:
	area and relevant for Cluster VII shall	Construction of pucca road
	be implemented.	2. Construction of water reservoir for
	K	
		mine water utilization
		3. Plantation.

The locations of monitoring stations in the XvEstablishment of ambient environment quality Jharia Coalfields should be finalized in monitoring stations is already in process and consultation with the Jharkhand State Jharkhand State Pollution Control Board is being Pollution Control Board. The Committee pursued in this regard. stated that smoke/dust emission vary from The work of monitoring of ambient environment has source to source (fuel wood, coal, flyash already been awarded to Central Institute of Mining & from TPPs, silica from natural dust, etc) Fuel Research (CIMFR), Dhanbad who is having and a Source Apportionment Study should be got carried out for the entire Jharia CSIR laboratory recognized under the EP Rules. Coalfields. Mineralogical composition study should be undertaken on the composition of Presently ambient air is being monitored through the suspended particulate matter (PM<sub>10</sub> BCCL own Laboratory at HQ level. The result of and PM<sub>2.5</sub>) in Jharia Coalfields and also analysis report is enclosed as Annexure-D.2. quantified. These studies would help ascertain source and extent of the air For the source apportionment study the action has pollution, based on which appropriate been taken to conduct with help of CMPDIL,RI-II. mitigative measures could be taken. Xvi No groundwater shall be used for the No ground water is being utilized for the purpose of mining activities. Additional water industrial use of the water. Mine water has been required, if any, shall be met from mine channelized through pipelines and through delivery in water or by recycling/reuse of the water to the old quarry for its is for the community and from the existing activities and from irrigation purposes. Drinking water is being purchased rainwater harvesting measures. from the Mineral Area Development Authority The project authorities shall meet water (MADA). requirement of nearby village(s) in case Further for the utilization of mine water following the village wells go dry to dewatering of actions has been taken by the company mine 1. Installation of Pressure filters: In Kusunda Area, one Pressure Filter, two Slow Sand Filter and one Rapid Gravity Filter Plant are in operation. At East Bassuriya New Colony, proposal for installation of two nos.Pressure Filters of each 15000 GPH capacity is under process. 2. Rain water Harvesting: to catch run-off water in colonies Rain water Harvesting is being done. BCCL has constructed rain water harvesting at Koylanagar Township In Kusunda Area, proposal for rain water harvesting at two colonies is under process from Civil Department. 3. In P.B.Area one integrated filter plant of Capacity of 15000 GPH has been installed and above to function. Regular monitoring of groundwater level The work of monitoring of ambient environment xvii and quality of the study area shall be including ground water monitoring has already been carried out by establishing a network of awarded to Central Institute of Mining & Fuel existing wells and construction of new Research (CIMFR), Dhanbad having CSIR laboratory peizometers. The monitoring for quantity recognized under the EP Rules for Kusunda Area and shall be dome four times a year in pre-P.B.Area of Cluster VII. monsoon (May), monsoon (August), postmonsoon (November) and winter (January)

seasons and for quality including Arsenic

	and Fluoride during the month of May.	
	Data thus collected shall be submitted to	
	the Ministry of Environment & Forest and	
	to the Central Pollution Control	
	Board/SPCB quarterly within one month of	
	monitoring. Rainwater harvesting measures	
	shall be undertaken in case monitoring of	
***	water table indicates a declining trend.	T. 1 111 11 1771 1 C
Xviii	Mine discharge water shall be treated	It shall be complied. The work of monitoring of
	to meet standards prescribed standards	ambient environment monitoring has already been
	before discharge into natural water	awarded to Central Institute of Mining & Fuel
	courses/agriculture. The quality of the	research 9CIMFR), Dhanbad having CSIR laboratory
	water discharged shall be monitored at	recognized under the EP Rules and they have stared
	the outlet points and proper records	work in Kusunda Area and P.B.Area of Cluster VII.
	maintained thereof and uploaded	Work in Rusunda Fired and Fish from of Cluster VII.
	regularly on the company website.	
Xix	ETP shall also be provided for workshop,	Construction ETP/Oil grease Trap is under process in
1111	and CHP, if any. Effluents shall be	Kusunda Area as well as P.B.Area of Cluster VII
	treated to confirm to prescribed	Rusunda / Hea as well as 1 .D./ Hea of Cluster vii
	standards in case discharge into the	
	natural water course	
Xx	Regular monitoring of subsidence	At present only development districts are operational
Μ	movement on the surface over and	in Kusunda Area of Cluster VII and In P.B.Area of
	around the working area and impact on	
	natural drainage pattern, water bodies,	Cluster VII depillaring is been done with Stowing
	vegetation, structure, roads, and	although monitoring of subsidence is being done.
	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	
<b>V</b> :	ballast and clayey soil/suitable material.	C-CC-1
Xxi	Sufficient coal pillars shall be left	Sufficient coal pillars have been left around air shafts
	unextracted around the air shaft	as per the statutes and DGMS guidelines in Kusunda
	(within the subsidence influence area)	Area As well as P.B.Area of Cluster VII.
	to protect from any damage from	
	subsidence, if any.	
Xxii	High root density tree species shall be	It will be complied, if required in Kusunda Area As
	selected and planted over areas likely to	well as P.B.Area of Cluster VII.
	be affected by subsidence	
Xxiii	Depression due to subsidence resulting	It will be complied, if required. in Kusunda Area of
	in water accumulating within the low	Cluster VII.
	lying areas shall be filled up or drained	In P.B.Area of Cluster VII depilarity
	out by cutting drains.	is being done by stowing method . There is no chance
		of subsidence, although regular monitoring is being
<b>3</b> 7. '	C.11.1 1 1 11 1 16 1 1 2	done.
Xxiv	Solid barriers shall be left below the	It is being followed. Sufficient barriers are left for

Xxv	roads falling within the blocks to avoid any damage to the roads.  No depillaring operation shall be carried out below the township/colony.	saving the surface installation and infra structures as per the statute and DGMS guidelines in Kusunda Area as well as P.B.Area of Cluster VII.  At present no ug depillaring operation is there at Kusunda Area. And in P.B.Area EC condition is
		followed.
Xxvi	The Transportation Plan for conveyor- cum-rail for Cluster-VII should be dovetailed with Jharia Action Plan The Plan for conveyor-cum-rail for Cluster- VII should be dovetailed with Jharia Action Plan. The road transpiration of coal during phase—I should be by mechanically covered trucks.	CMPDIL, RI-II has been requested to conduct study and prepare the plan in this regard.  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 covering vehicle with tarpaulin cover in Kusunda Area as well as P.B.Area of Cluster VII.
Xxvii	A study should be initiated to analyze extent of reduction in pollution load every year by reducing road transport	CMPDI RI-2 has been requested for Source Apportionment Study for Kusunda Area as well as P.B.Area of Cluster VII.
Xxviii	R&R of 13605 nos of PAF's involved. They should be rehabilitated at cost of Rs 529.47Crores as per the approved Jharia Action Plan.	Rehabilitation of PAP is being taken up as per the approved Master Plan in Kusunda Area as well as P.B.Area of Cluster VII.
xxix	A detailed CSR Action Plan shall be prepared for Cluster VII croup of mines. Specific activities shall be identified for CSR the budget of Rs. 311.35 Lakhs per year@ Rs 5/T of coal as recurring expenditure. The 143 ha of area within Cluster VII ML existing as waste land and not being acquired shall be put to productive use under CSR and developed with fruit bearing and other useful species for the local communities. In addition to afforesting 794.09 ha of are at the post-mining stage, 135.5 ha waste land /barren land within Cluster VII ML shall be rehabilitated/reclaimed as forest/agricultural land under CSR Plan in consultation with local communities. Third party evaluation shall be got carried out regularly for the proper implementation of activities undertaken in the project area under CSR. Issue raised in the Public Hearing shall also be integrated with activities being taken up under CSR. The details of CSR undertaken along with budgetary provisions for the village-wise various	CSR activities are being taken up on priority basis in Kusunda Area as well as P.B.Area of Cluster VII. Further a detailed project specific CSR Action Plan shall be formulated and for this purpose, BCCL has approached TATA INSTITUTE OF SOCIAL SCIENCES, MUMBAI which is also the focal agency of the National CSR Hub.

	activities and expenditure thereon shall be uploaded on the company website every year. The company must give priority to capacity building both within the company and to the local youth, who are motivated to carry out the work in future.	
Xxx	For monitoring land use pattern and for post mining land use, a time series of landuse 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. 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 for Kusunda Area and P.B.Area of Cluster VII.
Xxxi	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and exsitu in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration.	CMPDI, Ranchi has been requested to prepare "Final Mine Closure Plan along with a Plan for Habitat Restoration and with details of Corpus Fund" for Kusunda Area as well as P.B.Area of Cluster VII.
xxxii	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company for implementing environment policy and socio-economic issues and the capacity building required in this regard.	A full-fledged Environment Department, headed by a HoD (Environment) along with a suitable qualified multidisciplinary team of executives which includes Environment, Mining, Excavation, Civil, Survey, Electrical & mechanical, Forestry disciplines executives and technicians has been established in Headquarters. They are also trained in ecological restoration, sustainable development, rainwater harvesting methods etc. At the Area level, one Executive in each area has also been nominated as Nodal Officer (Environment) under General Manager of Area and at Project level, concerned Safety Officer under Project Officer is looking after the environment related jobs and 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.
		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 for
		Kusunda Area and P.B.Area of Cluster VII.
Xxxiii	Implementation of final mine closure	Final Mine Closure Plan, as per the guideline will be
	plan for Cluster VII, subject to	submitted 5 years before the closure of the Mine. For
	obtaining prior approval of the DGMS	the purpose of safety issues related to the closure prior
	in regard to mine safety issues	approval of DGMS will be taken in this regard
		Kusunda Area and P.B.Area of Cluster VII.
Xxxiv	Corporate Environment Responsibility:	
	a) The Company shall have a well laid down Environment Policy approved	A well defined Corporate Environment Policy has already been laid down and approved by the Board of
	by the Board of Directors.	Directors. This is also posted on BCCL website.
	b) The Environment Policy shall prescribe for standard operating	Complied for Kusunda Area as well as P.B.Area of Cluster VII.
	process/procedures to bring into	Cluster vII.
	focus any	
	infringements/deviation/violation of the environmental or forest norms/conditions.	
	c) The hierarchical system or Administrative Order of the	A hierarchical system of the company to deal with
	company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	environmental issues from corporate level to mine level already exists for Kusunda Area as well as P.B.Area of Cluster VII.
	To have proper checks and balances, the company shall have a well laid down system of reporting of non-	Being complied in Kusunda Area as well as P.B.Area
	compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large	of Cluster VII.

В	General Conditions by MOEF:	
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 Kusunda Area as well as P.B.Area of Cluster VII.
ii	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 peak production capacity as per EC in Kusunda Area as well as P.B.Area of Cluster VII.
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	The work of monitoring of ambient environment has already been awarded to Central Institute of Mining & Fuel Research (CIMFR), Dhanbad having CSIR laboratory recognized under the EP Rules and they have Start work in Kusunda Area as well as P.B.Area of Cluster VII.
iv	Data on ambient air quality (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> ) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	The work of monitoring of ambient environment has already been awarded to Central Institute of Mining & Fuel Research (CIMFR), Dhanbad having CSIR laboratory recognized under the EP Rules they have Start work in Kusunda Area as well as P.B.Area of Cluster VII.
V	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	Being Complied for Kusunda Area as well as P.B.Area of Cluster VII.
Vi	Industrial wastewater (workshop and wastewater from the mine) shall be	Proposal for Construction of Oil & grease Trap

properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.  Vii Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.  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 analyzed through a laboratory recognized under EPA Rules, 1986.  arrangement at W/shop in under Kusunda Area as well as P.B.Area of Cluster V.  Being Complied for Kusunda Area of Cluster V.  P.B.Area of Cluster V.  The work of monitoring of ambient already been awarded to Central Institution with the State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules, 1986.	area as well as /II.
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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 analyzed through a laboratory already been awarded to Central Instable Fuel Research (CIMFR), Dhanbar laboratory recognized under the EF Start work in Kusunda Area as we Cluster VII.	
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type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory laboratory laboratory recognized under the EF Start work in Kusunda Area as we Cluster VII.	_
analysis equipment in consultation with the State Pollution Control Board and data got analyzed through a laboratory	U
the State Pollution Control Board and data got analyzed through a laboratory	-
data got analyzed through a laboratory	Il as P.B.Area of
recognized under EPA Rules, 1986.	
	M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ix Personnel working in dusty areas shall Being Complied. A separate full	•
wear protective respiratory devices and Resource Development Deptt. Is c	onducting regular
they shall also be provided with adequate training programme on these issues	s. Apart from this
training and information on safety and Vocational Training Centers are exi	sting in the Area
health aspects. which provides periodical training	on the safety and
occupational health issue to each	of the workers
working in the mines for Kusunda	Area as well as
P.B.Area of Cluster VII.	
X Occupational health surveillance Initial Medical Examination (IME	and Periodical
programme of the workers shall be Medical Examination (PME) of all	
undertaken periodically to observe any the Area is carried out at Bhuli PM	1
contractions due to exposure to dust Dhanbad as per the Statutes and D	
and a second a second and a second a second and a second a second and a second and a second a second a second	
Wines Salety (ESIVIS) galdeline for	Kusunga Area as
The quality of environment due to well as P.B.Area of Cluster VII.	
outsourcing and the health and safety	
issues of the outsourced manpower	
should be addressed by the company	
while outsourcing.	
xi	ment handed by a
4.7 4.77 7404 7	
act up under the control of a Serieu	=
Executive who will report directly to the	
Head of the company.  Environment, Wilning, Excavation	<u> </u>
Electrical & mechanical, For	octory disciplina
executives and technicians has be	esu y disciplines

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.	Headquarters. They are also trained in ecological restoration, sustainable development, rainwater harvesting methods etc. At the Area level, one Executive in each area has also been nominated as Nodal Officer (Environment) under General Manager of Area and at Project level, concerned Safety Officer under Project Officer is looking after the environment related jobs and 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. 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 in Kusunda Area as well as P.B.Area of Cluster VII.  A separate fund under the environmental protection measures has already been allocated for Kusunda Area as well as P.B.Area of Cluster VII.
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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	It has been complied for Kusunda Area as well as P.B.Area of Cluster VII.
Xiv	A copy of the environmental clearance letter shall be marked to concern Panchayat/ZilaParishad, Municipal corporation or Urban local body and local NGO, if any, from whom any	Complied for Kusunda Area as well as P.B.Area of Cluster VII.

XV	suggestion /representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.  A copy of the environmental clearance letter shall be 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 for Kusunda Area as well as P.B.Area of Cluster VII.
Xvi	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> (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.	Complied for Kusunda Area as well as P.B.Area of Cluster VII.
Xvii	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.	Being complied in Kusunda Area as well as P.B.Area of Cluster VII.
Xviii	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Shall be complied in Kusunda Area as well as P.B.Area of Cluster VII.
Xix	The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project	Being complied in Kusunda Area as well as P.B.Area of Cluster VII.

	proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules,1986,as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF by E-mail	
C	Other Conditions by MOEF:	
I	The Ministry or any other Competent	
	Authority may stipulate any further condition(s) for environmental protection.	Agree for Kusunda Area as well as P.B.Area of Cluster VII.
Ii	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Agree for Kusunda Area as well as P.B.Area of Cluster VII.
Iii	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.	It is being complied for Kusunda Area as well as P.B.Area of Cluster VII.

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

Agree for Kusunda Area as well as P.B.An Cluster VII.



## Copy to:-

- 1. Secretary, Ministry of Coal, Shastri Bhawan, New Delhi.
- 2. Secretary, Department of Environment & Forests, Government of Jharkhand Secretariat, Ranchi.
- 3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31,
  - Chandrashekarpur, Bhubaneswar 751023.
- 4. Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor), H.E.C. Dhurwa, Ranchi 834004.
- Chairman, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
- Member-Secretary, Central Ground Water Authority, Ministry of Water Resources Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
- 7. District Collector, dist. Dhanbad Government of Jharkhand.
- 8. HOD Environment BCCL Koyla Bhawan.
- 9. General Manager Kusunda Area for kind information.
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