

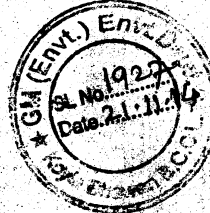


BHARAT COKING COAL LIMITED
(A SUBSIDIARY OF COAL INDIA LIMITED)
OFFICE OF THE GENERAL MANAGER
LODMA AREA

Ref. No:- BCCL/LN/GM/14/198.

Dated:- 20.11.2014

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



Subj: Six monthly report on implementation of Environmental Measures for the period from April, 2014 to September, 2014 in respect of Cluster - IX Group of Mines, Lodma Area of BCCL.

Ref. No.: EC Order No - J-11015/307/2010-IA (RM), dated - 21st May, 2013.

Dear Sir,

Please find enclosed herewith the Six monthly report on implementation of Environmental Measures for the period from April, 2014 to September, 2014 in respect of Cluster - IX Group of Mines, Lodma Area of BCCL.

Hope you will find the same in order.

Enclo as above with C.D.

[Signature]
General Manager
Lodma Area

Cc to:-

1. Dr. Sanita Anand, Director IA monitoring cell, Paryatan Bhawan CGO Complex, New Delhi-110003.
2. General Manager (Env) BCCL, Koyla Bhawan, Dhanbad.
3. General Manager (Min), Lodma Area.

[Signature]
21/11/14
Sri A.K. Singh
[Signature]

**ENVIRONMENTAL CLEARANCE COMPLIANCE OF CLUSTER - IX,
(GRANTED VIDE - J-110605070010-1A, ECR), DATED - 21st MAY, 2013.
(Period - From April, 2014 to September, 2015)**

Sl. No.	A. Specific conditions by MOEF.	Compliance.
--	The maximum production shall not exceed beyond that for which environmental clearance has been granted.	The production remains within the limit for which environmental clearance has been granted.
--	Action should be taken to segregate and handle the life saving, health saving for inclusion of the. Area-wise Action Taken report for mitigating the risk should be provided.	It is being complied.
--	"Action taken programme" for mitigating the impact of various activities and other aspects to be provided. Any international agency may also be contacted for their expertise in mitigating the risk in such the case.	It shall be complied.
--	The management plan of Action Control Centre of Action: Monitoring, Adaptation should follow according with the risk and also in such conflict.	It shall be complied.
--	Transportation Plan should be submitted to the MOEF.	It shall be complied.
--	The Standard Mine Closure Plan of Cluster - IX should be submitted to MOEF. The void should be in 30 km. area with 30 mt. depth.	Mine closure plan for the possibility of future operations and on the basis of mine closure, transfer plan submitted by CMCL.
--	The road transportation of coal during phase - I should be by continuously covered trucks. The road used for coal transportation should be developed with green plantation on both sides.	It shall be complied. However transportation should be done by regular covered trucks of private.
--	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.	It is being done. Training and skill development programme being conducted by VET and IITD of MOEF, New Delhi.
--	Details of transportation, CMCL, ECR and implementation of environmental action plan for each of the 17 clusters should be brought out in a booklet form.	It shall be complied.
--	A study should be initiated to analyse extent of pollution in pollution level every year by reducing road transport.	Cluster No - 1 has been assigned for future implementation study.
--	The company should continuously monitor the extent of air in South Coalfields and for their reduction and to further mitigate them for the coal and methane control.	It shall be complied. Further study is being done by Govt. of India to monitor implementation of the project.
--	The abandoned pits and voids should be backfilled with mud and reinforced with plantation and or may be used for plantations.	Risk study is being done. Backfilling of abandoned pits and voids is being done. Plantation is initiated at many locations. About 5000 tons of plants has been planted at South Coalfields in 2014-15 to 2015-16.
--	MOCL may consider setting up a separate management structure for implementing environment policy and socio-economic issues and the capacity building required in this regard.	A Self-Inspected Environment Department, headed by a MOCL (Environment) along with a separate, separate multidisciplinary team of members (12) who, which includes Environment, Mining, Engineering, Civil Survey, Electrical & Mechanical, Power, Chemical, Metallurgical and Instrumentation (12) has been established in Bhadrachalam. They are also working on integrated monitoring, research, sustainable development, resource planning, etc. At the project level, an Executive in each unit has also been appointed as project Model Officer (Environment) and are connected with the responsibility of compliance and achievement of the environmental Acts / Laws including environmental protection measures. The activities are monitored on regular basis at Area and at Plant level. MOCL (Environment) at Head quarter level. Coordination with all the Areas and reports to the Director (Environment) and in turn to reports to the CEO of the company. The team is multidisciplinary and very much motivated under the guidance of company's Director (Environment) and CEO. Further capacity building at both corporate and operating level is being done.
--	The location of monitoring stations in the South Coalfields should be finalized in consultation with the National State Pollution Control Board.	Complied.

IV	The smoke / dust emission vary from source to source (fuel wood, coal, fly ash from TPPs, silica from natural dust, etc.) and a source Assessment study should get carried out for the entire North Coalfields.	A tender committee has been formed for the Assessment of work for source assessment study. Tender notice document has been prepared and shared shortly after finalisation.
VI	Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM ₁₀ and PM _{2.5}) in North Coalfields and also quantified. These studies would help ascertain source and extent of air pollution, based on which appropriate mitigation measures could be taken.	The ambient environment monitoring is being done by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CEM Laboratory empanelled under the MP Rules.
XVI	The proposal shall propose time-wise stages of the North Coalfields through NMRCA to monitor and prevent the problems in the North Coalfields by industrial mapping, / mapping and monitoring stipulations of the coal seams (whether they are close to groundwater (static temperature) and based on which, areas with potential the problems shall be identified.	It is being done by NMRCA. Final report has been submitted in which the area has been reduced to 2.50 sqkm from 9 sqkm (Tir 2004). For further expansion of the has been taken up.
XVIII	Measures to prevent ingress of air (ventilation) in such areas, to prevent water flood / spread flow in other areas including in mines of cluster VIII shall be undertaken.	It is being completed.
XX	Underground mining should be taken up after completion of reclamation of Opencast mines area after 15 Years.	It shall be completed.
XXI	No mining shall be undertaken where underground line contains. Measures shall be taken to prevent / check such the including in old CB dump areas where the line could start due to presence of coal / dust with sufficient carbon content.	It shall be completed.
XXII	The aspects of ventilation in Cluster - IX should be sent to MEC based plan.	Coal venturi does not exist in this cluster as per plan.
XXIII	There shall be no external CB dumps. At the end of the mining lease shall be no void and the mines mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter.	Action is being taken as specified in plan. Monitoring of CB is going on with mining. At the end of mining lease shall be no void and area will be re-vegetated and reclaimed.
XXIV	A detailed reclamation plan of production with plan for CB dumping and backfilling (for OC mines) and reclamation and final mine closure plan for each mine of cluster - IX shall be done up and implemented.	Cluster plan has been prepared. While closure plan is per the production of mining of Coalfield and reclamation of Cluster control has been prepared by District Mining Officer, Dhanbad. District Mining Officer, Dhanbad.
XXV	The void shall be converted into a water reservoir of a minimum depth of 15-20 m and shall be gently sloped and the water level of the reservoir shall be stabilized with plantation and the pathway of the reservoir formed. The abandoned pits and voids shall be backfilled with CB and biologically reclaimed with plantation and or may be used for glaciation.	It shall be completed. A part of the void will be converted into the water body as specified in plan.
XXVI	Mining shall be carried out as per stipulate from the mine / Mine flowing within the lease and maintaining a safe distance from the Mine flowing along the lease boundary. A safety buffer of a minimum 40 m width shall be maintained along mine / water bodies. The small water bodies in OC shall be protected in the adjacent fields and the embankment prepared along water body shall be strengthened with stone pitching.	It is being followed as per stipulation.
XXVII	After CB dumps near water bodies and drains should be stabilized for backfilling abandoned mine voids. However, those which have been biologically reclaimed need not be disturbed.	It shall be completed.
XXVIII	Thick grass belt shall be developed along abandoned areas, mine boundary and in mine reclamation. During post mining stage, a total of 597.24 ha. area would be reclaimed. The total additional area under plantation would be 347.55 ha. (189.95) ha. abandoned quarry area, 178 ha. active quarry area, 104.34 CB dump outside quarry area, 36.79 ha. service building / mine infrastructure area / coal dump etc. 105.86 ha. green belt around OCP, 263.22 ha. barren area, by planting 2344700 plants at a total cost Rs. 10829.45 lakhs.	It is being completed. Forest plantation is being done for development of green belt as per plan.
XXIX	The road should be provided with avenue plantation on both side as trees act as sink of carbon and other pollutants.	It shall be completed.

xxix	Specific mitigative measures identified for the Jharkhand Coalfields in the Environmental Action plan prepared for Dhanbad as a critically polluted area and relevant for Cluster IX shall be implemented.	It shall be complied. Detailed Action Plan is being implemented. The salient actions of this cluster. 1. Covered transportation of coal. 2. Water sprinkling. 3. Plantation.
xxx	The locations of monitoring stations in the Jharkhand Coalfields should be finalized in consultation with the Jharkhand State Pollution Control Board. The committee stated that smoke / dust emission vary from source to source (fuel wood, coal, fly ash from TPPs silica from natural dust, etc) and a source Appraisalment Study should be got carried out the entire Jharkhand Coalfields. Microbiological composition study should be undertaken on the composition for suspended particulate matter (PM 10 and PM 2.5) in Jharkhand coalfields and also qualified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken.	The locations of monitoring stations has been finalized. The work of monitoring of ambient environment has been started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CMM Laboratory recognized under the SP Rules. For the source appraisalment study the action has been taken with help of CIMFRIL.
xxxi	No ground water 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.	It is being complied and Mine water is being used for the industrial purposes. Further Mine Water is also utilized for the community and irrigation purposes. 1. Installation of Reverse Osmosis for utilization of Mine Water. 2. Rainwater Harvesting.
xxxii	Regular monitoring of groundwater level and quality of the study area shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality including Arsenic and Fluoride during the month of May. Data thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board / SPCEB quarterly within one month of monitoring. Rainwater harvesting measures shall be undertaken in case monitoring of water table indicates a declining trend. Mine discharge water shall be treated to meet standards prescribed standards before discharge into natural water covered / 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.	It shall be complied. The work of monitoring has been started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad which has CMM Laboratory recognized under the SP Rules. Presently CIMFRIL is monitoring the ground water level. The locations of monitoring stations has been finalized. It is being complied.
xxxiii	ETP shall also be provided for workshops, and CWP, if any. Effluents shall be treated to conform to prescribed standards in case discharge into the natural water course.	Construction of ETP / Oil grease Trap is being taken up.
xxxiv	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil / suitable material.	Complied.
xxxv	Sufficient coal pillars shall be left un-mined around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	Sufficient coal pillars have been left around air shafts as per the statute and DGRM guidelines.
xxxvi	High roof density tree species shall be selected and planted over areas likely to be affected by subsidence.	Identification of high roof density Plant and its plantation in subsidence prone area will be taken up.
xxxvii	Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains.	It shall be complied.
xxxviii	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	Sufficient barriers are left for avoiding the surface installation and infra structures as per the statute and DGRM guidelines.
xi	No depillaring operation shall be carried out below the township / colony.	It is being followed.

PL	The transportation plan for conveyor-consumed for Cluster IX should be dovetailed with Jharkh Action plan. Road transportation of coal during Phase - 1 should be by mechanically covered trucks, which should be introduced at the earliest. The plan for conveyor-consumed for Cluster - IX should be dovetailed with Jharkh Action Plan. The road transportation of coal during Phase - 1 should be by mechanically covered trucks.	Action has been taken for formulating adequate transportation plan for conveyor-consumed system of Dispatch. CMFRI has been requested to prepare the plan. By that time transportation is being done by covering vehicle with tarpaulin cover. Action for mechanically covered trucks has been taken.
PL	A study should be initiated to analyse extent of reduction in pollution load every year by reducing road transport.	CMFRI RI-2 has been requested for Source Apportionment Study.
REH	REH of 12346 Nos. of PAF's involved. They should be rehabilitated at cost of Rs. 126092027 Lakhs as per the approved Jharkh Action Plan.	Implementation is being done as per the Master Plan.
PL	A detailed CSR Action plan shall be prepared for Cluster IX group of mines. Specific activities shall be identified for CSR the budget of Rs. 142.35 Lakhs per year @ Rs. 57 of coal as securing expenditure. The 391.58 ha. of area within Cluster IX 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 allotting 1942.12 ha. of area at the post-mining stage, the waste land / barren land within Cluster IX 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. Issues 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 expenditures 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 company and to the local youth, who are motivated to carry out the work in future.	It shall be completed. REH is implementing CSR activities. A separate CSR committee has been formed for this purpose.
PL	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 5 years (for any one particular season which is consistent in the time series), and the report submitted to MCHP and its Regional office at Bhopal.	Completed. Recently a time series map of vegetation cover in the Jharkh Coal Field is being created on Google Earth. CMFRI Report. Further CMFRI 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 every 5 years."
PL	A final Mine Closure Plan along with details of Closure Fund shall be submitted to the Ministry of Environment & Forest Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area during mine operation and at the post-mining stage for habitat restoration.	CMFRI has been requested to prepare "Final Mine Closure Plan along with plan for habitat restoration and with details of Closure Fund"
PL	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 Environmental Department, headed by a DCE (Environment) along with a suitable qualified multidisciplinary team of Executives (14 nos.) which includes Environment, Mining, Extension, Civil, Survey, Electrical & Mechanical, Planning, Statistics, Executive and Technicians (4 Nos.) has been established in Bhopal. They are also linked in regular communication, monitoring, development, planning, inventory, methods etc. At the project level, one Executive in each area has also been nominated as Project Field 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 Quarter levels. GED (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.

XLV	Implementation of final mine closure plan for Cluster IX, subject to obtaining prior approval of the DGMS in regard to mine safety issues.	Final Mine Closure Plan, as per the guidelines will be submitted 5 years before the closure of the mine. For the purpose of safety issues related to the closure prior approval of DGMS will be taken in this regard.
XLVI	Corporate Environment Responsibility :- The company shall have a well laid down Environment Policy approved by the Board of Directors. The environment Policy shall prescribe for standard operating process / procedures to bring into focus any infringements / deviation / violation of the environmental or forest norms / conditions. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliance / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large.	A well defined Corporate Environment Policy has already been laid down and approved by the Board of Directors. This also posted on EOCL website. Complied. A hierarchical system of the company to deal with environmental issues from corporate level to mine level already exists. Being complied.

S	General Conditions :-	Compliance
-	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Being complied.
-	No change in the calendar plan of production for quantum of mineral coal shall be made.	Being complied.
II	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 ₂ monitoring. Location of the station 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 Pb, As, Ni, Cd, Cr, etc. shall not be made in air monitor.	The location of monitoring station has been finalized. The work of monitoring of ambient air quality has been started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad which is Mining Cost Laboratory recognized under the MP Rules.
2	Data on ambient air quality (PM 10, PM 2.5, SO ₂ and NO ₂) and heavy metals such as Pb, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Dhanbamon 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 recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	It shall be complied.
>	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.
V	Effluent wastewater (workshop and wastewater from the mine) shall be properly collected, treated as per to conform to the standards prescribed under GMR 422 (B) dated 29 th May, 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	The location of monitoring station has been finalized. The work of monitoring of effluent water quality has been started by Central Institute of Mining & Fuel Research (CIMFR), Dhanbad which is Mining Laboratory recognized under the MP Rules.
V	Vehicle emission shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and regularly loaded.	It shall be complied.
VIII	Monitoring of environment 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 get analyzed through a laboratory recognized under EPA Rules, 1986.	It is being done.
ix	Personnel working in dusty areas shall wear protective respiratory devices and they shall be also be provided with adequate training and information on safety and health aspects.	Being Complied. Ventilated Working Culture under various Human Resource Development Dept. is conducting regular training programme on these aspects.

K	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contraindications 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 periodic Medical Examination (PME) of all the personnel are carried out as per the Standard and Standard Council of India Safety (OSHA) guidelines.
H	A separate environment 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 EOD (Environment) along with a suitable qualified multidisciplinary team of executives (14 Nos.) which includes Environment, Mining, Extraction, Civil, Survey, Electrical & Mechanical, Power, Distribution, Extraction and Technology (8 Nos.) has been established in Haldwari. They are also trained in ecological restoration, sustainable development, climate change, hazardous materials etc. At the project level, an Executive in each area has also been appointed as Project Node Officer (Environment) and is also associated with the responsibility of compliance and clearance of the environmental Acts / Laws including environment protection measures. The activities are monitored on regular basis at Area and at Head Quarter levels. EOD (Environment) at Head Quarter level co-ordinates with all the Areas and reports to the Director (Environment) 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 (Technology and EOD). Further capacity building at both corporate and operating level is being done.
W	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purposes. Year-wise expenditure shall be reported to this Ministry and its Regional Office at Bhubaneswar.	It is being complied.
H	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 locally concerned within seven days of the clearance letter informing that the project has been accepted environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at the website of the ministry of Environment & Forests at http://mef.nic.in .	It has been complied. Advertisement in local newspaper is enclosed as Annexure-C.
R	A copy of the environmental clearance letter shall be sent to concerned Panchayat/Zilla 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.
R	A copy of the environmental clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office District Industry Sector and Collector's Office/Talukdar's Office for 30 days.	Complied.
M	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 environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM_{10} , $PM_{2.5}$, SO_2 and NO_2 (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.
M	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office of CPCB and the SPCB.	Being complied.

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.
xix	The Environment Statement for each financial year ending 31 March in for-V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1996, as amended subsequently. It 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.	Being complied.

C	Other Conditions by MOEF:	Compliance.
--	The Ministry or any other Competent Authority may stipulate any further condition(s) for environmental protection.	Agree.
xx	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.
xxi	The above conditions will be enforced here-on, 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.
xxii	The Environmental clearance is subject to the outcome of the Writ Petition filed by M/s Bharat Coking Coal Limited (BCL) in response to the closure orders issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court.	Agree.

9/2
20/7/14
General Manager (Mining)
BCL, Bhubaneswar