

BHARAT COKING COAL LIMITED
(A Subsidiary of Coal India Limited)
OFFICE OF THE GENERAL MANAGER
KATRAS AREA - IV
PO: Sijua, Dist. - Dhanbad (Jharkhand) - 828121

Ref No. : BCCL/KA-IV/ENV/2014/ 545

Dated: 05.5.2014

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

Sub:- Six monthly report on implementation of Environmental Measures for the period from Oct'2013 to Mar'2014.

Dear Sir,

Kindly find enclosed herewith the six monthly report on implementation of environmental protection measures for the period from Oct'2013 to Mar'2014 in respect of Cluster-IV group of mines of BCCL.

Hope you will find in order.

Enclosed:-As above.

Yours faithfully,

General Manager
Katras Area

C.C.to:-

1. Dr. Sunita Aulock, Director, 1A Monitoring Cell, Paryavaran Bhawan, CGO Complex, New Delhi-11003
2. GM (Env), BCCL, Koyla Bhawan, Dhanbad.
3. Area Manager (PLG), Katras Area
4. Nodal Officer (Civil), Katras Area
5. Office copy

S. K. Singh Asst Manager (EAM)-
8/5/14

ENVIRONMENTAL CLEARANCE COMPLIANCE OF CLUSTER-IV
(GRANTED VIDE J-11015/212/2010-IA. II (M) Dated 06.02.2013)
(Upto MARCH- 2014)

| SN | A. Specific Conditions by MOEF: | Compliance | Compliance in Percentage (%) |
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| i | The maximum production from one opencast section in the cluster shall not exceed beyond that for which environmental clearance has been granted for the cluster IV. | The production from the operating Mines of the cluster is within the limit for which environmental clearance has been granted. Additional 0.884MT firey coal was recovered during fire dealing process within this cluster. | 100 |
| ii | The measure to identify in the Environmental Plan for Cluster- IV 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 is dovetailed with environmental clearance conditions. For implementation of fire dealing as per the Master Plan, Gaslitand fire patch was operated to dig out the firey coal seam and to control the further spread of fire to the nearby coal mines. During the course of fire dealing activity additional 0.884 MT of firey coal has been recovered during the year. | 100 |
| 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. Measures to prevent ingress of air (Ventilation) in such areas, to prevent restart fresh/spread fires in other areas including in mines of cluster IV shall be undertaken. 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 | The study has been carried out by NRSC and report has been submitted. In the report fire has been reduced up to 2 sq km. Action is being taken as specified in the Master Plan and EMP. | 100 |

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| | subsidence control. Monitoring of fire should be carried out regularly. | | |
| iv | Underground mining should be taken up after completion of reclamation of Opencast mine area after 15 years. | It is being complied. Mining is being done as per the guidelines and approval/permission of Directorate General of Mines Safety (DGMS). | 100 |
| V | 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 Stabilised with plantation so as to withstand the peak water flow and prevent mine inundation. | It is being followed. Action for construction of embankment has been taken as specified in EMP. | 100 |
| vi | The rejects of washeries in Cluster -IV should be send to FBC based plant. | NO WASHERY AT PRESENT | 100 |
| vii | 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. | 100 |
| Viii | There shall be no external OB dumps. OB produce from the one OC Patch of cluster IV will be 45.5 Mm ³ . OB from one OCP patches in mixed mine shall be backfilled. At the end of the mining there shall be no void and The entire mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter. | Action is being taken as specified in EMP. Backfilling of OB is going on with mining. At the end of mining there shall be no void and area will be re-vegetated and reclaimed. | 100 |
| ix | 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-IV shall be drawn up and implemented. | Calendar plan has been prepared. Mine closure plan as per the guidelines of Ministry of Coal and on the basis of cluster concept is under preparation by Central Mine planning and Design Institute (CMPDI). | 100 |
| X | Mining shall be carried out as per statuette from the streams/nalas flowing within the lease and maintaining a safe distance from | It is being followed. Action for construction of embankment has been taken as specified in EMP. | 100 |

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| | <p>the Nalas flowing along the lease boundary. A safety barrier of a 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 taking into account the highest flood level, based on past data, so as to guard against mine inundation. The slope of the embankment shall at least 2:1 towards the ML. The height of the embankment shall be at least 3 m higher than the HFL. The embankment to be constructed by OB /solid waste shall be strengthened with stone pitching. Slope stability of the embankment shall be done by planting suitable grass and shrubs using native species selected from the study area.</p> | | |
| xi | <p>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.</p> | <p>No OB is being dumped near water bodies. Further action has been taken for their eco-restoration work as per Road Map prepared by FRI, Dehradun.</p> | 100 |
| xii | <p>Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. During post mining stage, a total of 794.09 ha area would be reclaimed. The total additional area under plantation would be 719.42 ha (101.7 ha abandoned quarry area, 103.31 ha active quarry area, 14.82 OB dump outside quarry area, 4.36 ha service building /mine infrastructure area /coal dump etc, 160.25 ha green belt around OCP, 334.94 ha barren area), by planting 17,98,550 plants at a total cost of Rs 396.41 lakhs.</p> | <p>It is being complied. Yearly plantation is being done for development of green belts as per EMP. At Ecological restoration site under AKWMC already 4837 nos trees has been planted over 3.40 ha area and 3000 to 4000 nos trees shall be planted during 2014-15 at the same site.</p> | 100 |
| xiii | <p>The road should be provided with avenue plantation on both side as trees act as sink of carbon and other pollutant.</p> | <p>It shall be complied.</p> | 100 |

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| Xiv | 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- IV shall be implemented. | Dhanbad Action Plan is being implemented. The salient actions of this cluster 1. Transportation by covered truck. 2. Water sprinkling 3. Plantation. | 100 |
| xv | The locations of monitoring stations in the Jharia 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, flyash from TPPs, silica from natural dust, etc) and a Source Apportionment Study should be got carried out for the entire Jharia Coalfields. Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM ₁₀ and PM _{2.5}) in Jharia Coalfields and also quantified. These studies would help ascertain source and extent of the air pollution, based on which appropriate mitigative measures could be taken. | The location of the monitoring stations has been finalized. The work of monitoring of ambient environment is being done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules. For the source apportionment study the action has been taken with help of CMPDIL. | 100 |
| Xvi | The Transportation Plan for conveyor-cum-rail for Cluster-IV should be dovetailed with Jharia Action Plan. Road transportation of coal during Phase-I should be by mechanically covered trucks, which should be introduced at the earliest. The Plan for conveyor-cum-rail for Cluster-IV should be dovetailed with Jharia Action Plan. The Committee desired that road transportation of coal during phase-I should be by mechanically covered trucks. | Action has been taken for formulating adequate transportation plan for conveyor 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 into mechanically covered trucks in a phased manner has been taken up. By that time transportation is being done by covering vehicle with tarpaulin cover. | 50% |
| Xvii | A study should be initiated to analyse extent of reduction in pollution load every year by reducing road transport | CMPDI RI-2 has been requested for Source Apportionment Study. The draft feasibility report has been submitted to CMPDIL. | 100% |
| Xviii | R&R of 7012 nos of PAF's involved. They should be rehabilitated at cost of Rs 26274 lakhs as per the | Action of Master plan is being completed as per action plan of Master Plan | 100 |

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| | approved Jharia Action Plan. | | |
| xix | 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/SPCB quarterly within one month of monitoring. Rainwater harvesting measures shall be undertaken in case monitoring of water table indicates a declining trend. | It has been complied. The work of monitoring has been done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules. Presently CMPDI is monitoring the ground water level. The location of the monitoring stations has been finalized with JSPCB. | 100 |
| Xx | 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. | At present only development districts are operational at UG mines in Cluster IV and no depillaring district is taken up. However regular monitoring of subsidence will be undertaken on commencement of depillaring districts. | 100 |
| Xxi | Sufficient coal pillars shall be left unextracted 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 statutes and DGMS guidelines. | 100 |
| Xxii | High root density tree species shall be selected and planted over areas likely to be affected by subsidence. | Identification of high root density plant and its plantation in subsidence prone area will be taken-up at the time of depillaring operations. | 100 |
| Xxiii | Depression due to subsidence | It is being complied. | 100 |

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| | resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains. | | |
| Xxiv | Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads. | Sufficient barriers are left for saving the surface installation and infra structures as per the statute and DGMS guidelines. | 100 |
| Xxv | No depillaring operation shall be carried out below the township/colony. | It is being followed. | 100 |
| Xxvi | A detailed CSR Action Plan shall be prepared for Cluster IV group of mines. Specific activities shall be identified for CSR for the budget of Rs 142.55 Lakhs /annum @ Rs 5/T of coal provided for CSR and Rs. 5/T of coal as recurring expenditure. The 416.98 ha of area within Cluster IV 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. 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 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. | It is being complied. BCCL is implementing CSR activities. Area wise separate CSR committee has been framed for this purpose. For detailed CSR action plan and framework, Tata Institute Of Social Science (TISS) has been consulted. TISS is conducting necessary survey in the project area. | 50 |
| Oxvii | Details of transportation, CSR, R&R and implementation of environmental action plan for the clusters-IV should be brought out in a booklet form within a year and regularly updated. | It is being followed. | 100 |
| Oxviii | Mine discharge water shall be treated to meet standards | Monitoring station has been finalized with the consultation of | 100 |

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| | prescribed standards 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. | JSPCB. The monitoring is being done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules. | |
| xxix | 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. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry to dewatering of mine. | It is being complied and mine water is being used for the industrial purpose. Further Mine water is also utilized for the community and irrigation purposes. Following actions has been taken by the company 1. Installation of Pressure filters for utilisation of mine water 2. Rain water Harvesting | 100 |
| Xxx | 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 recognized with plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and reclaimed with plantation and or may be used for pisciculture. | It shall be complied. A part of the void will be converted into the water body as specified in EMP. | 100 |
| Xxxi | 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/SPCB quarterly within one month of monitoring. Rainwater harvesting measures shall be undertaken in case monitoring of water table indicates a declining trend. | It has been complied. The work of monitoring has been done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules. Presently CMPDI is monitoring the ground water level. The location of the monitoring stations has been finalized with JSPCB. | 100 |

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| Xxxii | ETP shall also be provided for workshop, and CHP, if any. Effluents shall be treated to confirm to prescribed standards in case discharge into the natural water course | Construction of ETP/ Oil grease Trap is being taken-up. | 100 |
| Xxxiii | The location of monitoring stations in the Jharia coalfield should be finalized in consultation with Jharkhand State Pollution Control Board. | Monitoring station has been finalized with the consultation of JSPCB. | 100 |
| Xxxiv | 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. | Complied. Presently a time series map of vegetation cover in the Jharia Coal Field is being carried out through CMPDI Ranchi. Further CMPDI has been requested to prepare "Time series of land use maps based on satellite imagery of the core zone and buffer zone in the scale 1:5000 for every 3 years. | 100 |
| Xxxv | 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 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. | CMPDI, Ranchi has been requested to prepare "Final Mine Closure Plan along with a Plan for Habitat Restoration and with details of Corpus Fund". CMPDI has submitted the mine closure plan for the Amalgamated Keshalpur West Mudidih Colliery, Salanpur UG Mine & Amalgamated Angarpathra Ramkanali Colliery and for Gaslitant Colliery & Katras Chatudih Colliery is awaited. | 100 |
| Xxxvi | Implementation of Final Mine Closure Plan for Cluster IV, subject to obtaining prior approval of the DGMS in regard to mine safety issues. | For the purpose of safety issues related to the closure of mine prior approval of DGMS will be taken. | 100 |
| Xxxvii | A separate management structure for implementing environment policy and socio-economic issues and the capacity building required in this regard. | Environment Advisory committee has been formed at head quarter level to frame and implement the environment policy. Similar cell has also been formed at area level. A full-fledged Environment | 100 |

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| | | <p>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. 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.</p> | |
| Xxxviii | <p>Corporate Responsibility:</p> <p>Environment</p> <p>a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.</p> <p>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.</p> | <p>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.</p> <p>Complied.</p> | 100 |

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| | <p>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.</p> <p>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.</p> | <p>A hierarchical system of the company to deal with environmental issues from corporate level to mine level already exists.</p> <p>Being complied.</p> | |
| a | 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 complied. | 100 |
| ii | No change in the calendar plan of production for quantum of mineral coal shall be made. | Being complied. | 100 |
| 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 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. | <p>Monitoring stations has been finalized.</p> <p>The work of monitoring of ambient environment is being done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules.</p> | 100 |
| iv | Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) 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 | It shall be complied. | 100 |


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| | analysis from independent laboratories 11 recognized under the EPA rules, 1986 shall be furnished as part of compliance report. | | |
| 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. | 100 |
| vi | Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 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. | Monitoring stations has been finalized. The work of monitoring of ambient environment is being done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having laboratory recognized under the EP Rules. | 100 |
| 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. | It shall be Complied. | 100 |
| 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 recognized under EPA Rules, 1986. | It is being done. | 100 |
| 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. Vocational training Centers under separate Human Resource Development Deptt. Is conducting regular training programme on these issues. | 100 |
| x | Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to | Initial Medical Examination (IME) and Periodical Medical Examination (PME) of all the personnel are | 100 |

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| | 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. | 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. The team is multidisciplinary and very much motivated under the guidance of company's Director (Technical) and CMD. Further capacity building at both corporate and operating level is being done. | 100 |
| 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 | It is being complied. | 100 |

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| | this Ministry and its Regional Office at Bhubaneswar. | | |
| 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 http://envfor.nic.in . | It has been complied. Advertisement in local newspaper is enclosed as annexure-B. | 100 |
| xiv | 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. | 100 |
| 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. | 100 |
| 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 ₁₀ , PM _{2.5} , SO ₂ and NO ₂ . | Complied. | 100 |

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| | (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website. | | |
| XVII | The project proponent shall submit six monthly 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 offices of CPCB and the SPCB. | It is being complied. | 100 |
| 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 officer(s) of the Regional office by furnishing requisite data/ information/ monitoring reports. | It shall be complied. | 100 |
| XIX | The Environmental statement for each financial year ending 31 st March in form-V is mandated to be submitted by the project proponent for the concerned state pollution control board under the environment (protection) Rules, 1985 as amended subsequently, shall also be uploaded on the company's website along with the status of compliances of EC conditions and shall be sent to the respective Regional offices of the MOEF by e-mail. | Being complied | 100 |
| C | Other conditions by MOEF | | |
| i | The ministry or any other competent authority may stipulate any further condition(s) for environmental protection. | Agree | |
| 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 | |
| iii | The above condition will be SUBMITTED UNDER THE PROVISION OF THE WATER (PROTECTION & CONTROL) ACT, 1986. | Being complied. | |

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| | the Air (prevention & Control of Pollution) Act, 1981, the Environment (protection) Act, 1985, and the public liability insurance Act, 1991 alongwith 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. | | |
| IV | 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 order issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court. | Agreed. | |


 GENERAL MANAGER
 KATRAS AREA

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