



भारत कोकिंग कोल लिमिटेड
(कोल इण्डिया लिमिटेड की एक अनुसूची कंपनी)
Bharat Coking Coal Limited
(A Subsidiary of Coal India Limited)
(एक मिनोराइन कंपनी - A Miniratna Company)
(भारत सरकार का उपक्रम - A Government of India Undertaking)

Ref. No. BCCL/GM/Ar. III/Env./2024-25/ 22

Dated: 28.05.2024

To
The Director
Ministry of Environment, Forest & CC
Regional Office (ECZ), Bungalow No.-2
Shyamali Colony
Ranchi- 834002

Subject: six monthly compliance reports on implementation of Environmental measures for the period from October 2023 to March 2024 in respect of Cluster –III groups of mines.

Ref:-EC Order No. J-11015/213/2010-IA.II (M) dated 06.02.2013

Dear Sir,

Kindly find herewith the enclosed six-monthly compliance report on implementation of Environmental measures for the period from **October 2023 to March 2024** in respect of Cluster –III groups of mines, BCCL.

This is for your kind information.

Encl: As above

Yours faithfully

28/05/2024
General Manager
Govindpur Area
[Signature]

C.C to (Through e-mail)

1. Regional officer, JSPCB, Housing colony, Dhanbad
2. CPCB Zonal office, Kolkata
3. GM (Min/Env), BCCL Koyla Bhawan, Dhanbad
4. Area Manager (Env), Govindpur Area.

पंजीकृत कार्यालय: कोयला भवन, कोयला नगर, बीसीसीएल टाउनशिप, धनबाद, झारखंड -826005, भारत
Registered Office: Koyla Bhawan, Koyla Nagar, BCCL Township, Dhanbad, Jharkhand-826005, India
फोन / Phone: 0326-2236000, वेबसाइट / Website: www.bcclweb.in, CIN-U10101JH1972GOI000918

COMPLIANCE OF EC CONDITIONS: - CLUSTER-III GROUP OF MINES, BCCL FOR PERIOD FROM OCTOBER 2023 TO

MARCH 2024

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

Sl. No	EC Conditions (Specific)	EC compliance status																			
i	<p>A. Specific Conditions by MOEF:</p> <p>The maximum production from the two opencast sections in the cluster shall not exceed beyond that for which environmental clearance has been granted</p>	<p align="center">Compliance</p> <p>Being Complied. The production from two opencast sections of the cluster is within limit for which the environmental clearance has been granted. Details of production from two opencast sections is given below:</p> <table border="1" data-bbox="943 1793 1166 2053"> <thead> <tr> <th rowspan="2">Mine</th> <th colspan="2">EC capacity (MTY)</th> <th colspan="2">Actual Production (MTe)</th> </tr> <tr> <th>Normative</th> <th>Peak</th> <th>FY 2022-23</th> <th>FY 2023-24</th> </tr> </thead> <tbody> <tr> <td>New Akashkinaree Colliery</td> <td>1.000</td> <td>1.300</td> <td>0.588646</td> <td>0.688385</td> </tr> <tr> <td>Block-IV/Kooridih Colliery</td> <td>1.100</td> <td>1.430</td> <td>0.182010</td> <td>0.228070</td> </tr> </tbody> </table>	Mine	EC capacity (MTY)		Actual Production (MTe)		Normative	Peak	FY 2022-23	FY 2023-24	New Akashkinaree Colliery	1.000	1.300	0.588646	0.688385	Block-IV/Kooridih Colliery	1.100	1.430	0.182010	0.228070
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ii	<p>The measure to identify in the Environmental Plan for Cluster- III groups of mine and the conditions given in this environmental clearance letter shall be dovetailed to the implementation of the Jharia Action Plan.</p>	<p>Being Complied. Master Plan activities are dovetailed with compliance of environmental clearance conditions.</p>																			
iii	<p>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.</p> <p>Measures to prevent ingress of air (Ventilation) in such areas, to prevent restart fresh/spread fires in other areas including in mines of cluster III shall be undertaken. Expertise available internationally could also be utilized for control of fire in Jharia Coalfields and for their reclamation and to further minimize time for fire and subsidence control. Isothermal mapping using thermal imaging has been got done by NRSA. Measures would be taken to prevent ingress of air (ventilation) in such areas, which may re-start fresh fires.</p>	<p>Being Complied. NRSC is conducting thermal Infra-Red Survey periodically. Report for 2014, 2018, and 2021 are submitted and action are being taken accordingly (Report for year 2021 is attached herewith as Annexure-I and can be accessed through link https://drive.google.com/file/d/1CkoCvPDqjRlkv4pXhI3RauOrgAT1Pxd/view?usp=sharing)</p>																			

iv	Underground mining should be taken up after completion of reclamation of Opencast mine area.	Being completed. No UG operation is being done below Opencast sections of the Mines.
v	The OB material should be crushed like sand and be used for stowing in Underground mines.	At present there is no requirement of stowing in cluster III as no depillaring is being done in UG mines.
vi	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-III shall be drawn up and implemented. The schedule of backfilling should be clearly brought out and submit the same to MoEFCC.	Being completed. Mine closure plan as per the guidelines of Ministry of Coal has already been prepared by Central Mine planning and Design Institute, Dhanbad and approved by BCCCL Board on 21.09.2013. The financial provisions required for the implementation of mine closure plan are being kept in escrow accounts. Details of amount kept in escrow account and copy of mine closure plans are attached as Annexure-II and can be accessed through link https://drive.google.com/file/d/1FMBiYarJDF4Ynev2Rdkuy5gqQ87lpC9h/view?usp=drive_link
vii	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and Stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	Year wise data of OB generated and backfilling is attached as Annexure-V . Details of proposed coal production, OB production for FY 2024-25 are attached as Annexure-VI .
viii	The rejects of washeries in Cluster-III should be sent to FBC based plant.	Being Completed. Embankments have been constructed as specified in EC and stone pitching has been done. Photographs of the embankment are attached as Annexure-III .
ix	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient carbon content.	Coal washery does not exist in cluster-III at present. Being completed. Mining is being done as per the guidelines and permissions of Directorate General of Mines Safety (DGMS).
x	There shall be no external OB dumps. OB produce from the whole cluster will be 80Mm ³ . OB from 2 OCP in mixed mines shall be backfilled. At the end of the mining there shall be no void and The entire mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed shall be reclaimed immediately thereafter. It was observed that most of the OBs are not reclaimed and abandoned. The proponent should dump all the OB material in abandoned mines.	Being Completed. Actions are being taken for regular backfilling of OB generated and stabilized OB dumps have been changed into ecological restoration sites (Photographs of biological reclaimed site are attached as Annexure-IV). Year wise data of OB generated and backfilling is attached as Annexure-V .
xi	Number of voids present in cluster – III at the end of mining should be backfilled up to ground level and no void should be left at the end of mining.	Includes Post mining condition. Being completed.
xii	A detailed calendar plan Of production with the plan for OB dumping and backfilling (for O/C mines) and reclamation and final mine closure plan for each mine of cluster-III shall be drawn up and implemented. The schedule of Backfilling should be clearly brought out and submit the same to MoEFCC.	Being completed. Mine closure plan as per the guidelines of Ministry of Coal has already been prepared by Central Mine planning and Design Institute, Dhanbad and approved by BCCCL Board on 21.09.2013. The financial provisions required for the implementation of mine closure plan

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	<p>are being kept in escrow accounts. Details of amount kept in escrow account and copy of mine closure plans are attached as Annexure-II and can be accessed through link https://drive.google.com/file/d/1FMBiYarJDF4Ynev2Rdkuy5gqO87lpc9h/view?usp=drive_link</p> <p>Year wise data of OB generated and backfilling is attached as Annexure-V. Details of proposed coal production, OB production for FY 2023-24 are attached as Annexure-VI.</p>
<p>xiii Mining shall be carried out as per statute from the streams/nalas flowing within the lease and maintaining a safe distance from 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.</p>	<p>Being Complied. Embankments have been constructed as specified in EC and stone pitching has been done. Photographs of the embankments are attached as Annexure-III.</p>
<p>xiv Active OB dumps near water bodies and rivers should be rehandled for backfilling abandoned mine voids. However, those which have been biologically reclaimed need not be disturbed.</p>	<p>Being Complied. No active OB dump near Water bodies. Old OB dump near water bodies is stabilized.</p>
<p>xv Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. A total area of 854.72 ha shall be reclaimed and afforested.</p>	<p>Includes post mining requirement and it shall be complied. Yearly plantation is being done for development of green belts as per EC. Apart from this avenue/block plantation is being done at spaces available. (Photographs of biological reclaimed site are attached as Annexure-IV). Details of year wise plantation up to 30.09.2023 attached as Annexure-VII.</p>
<p>xvi Details of transportation, CSR, R&R and implementation of environmental action plan for the clusters-III should be brought out in a booklet form within a year and regularly updated.</p>	<p>Being Complied. The booklet is maintained at cluster level. Can be accessed through https://drive.google.com/file/d/1BSK8KCYyCMsJ4F5puwEVnVhDh_2dDj3M/view?usp=drive_link</p>
<p>xvi i Specific Mitigative measures identified for the Jharia Coalfields in the Environmental Action Plan prepared for Dhanbad as a critically polluted area and relevant for Cluster III shall be implemented.</p>	<p>Being Complied. Dhanbad Action Plan has been prepared in consultation with Jharkhand Pollution Control Board for entire BCCL and not cluster wise. It is being implemented comprehensively for all the mines of BCCL. Some of the salient actions of this cluster are as under:</p> <ol style="list-style-type: none"> 1. Construction of pucca road/WBM road for coal transportation passing through public transportation routes. 2. Construction of water reservoir for mine water utilization 3. OB dumps biological reclamation and avenue plantation. 4. Transportation of coal on public roads is being done in tarpaulin covered vehicles.

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<p>xxi ii</p> <p>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, fly ash from TPPs, silica from natural dust, etc.) and a Poll Mineralogical composition study should be undertaken on the composition of the suspended particulate matter (PM10 and PM2.5) 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.</p>	<p>5. Regular water sprinkling in dust prone areas. 6. Installation of trolley mounted fog cannons at railway siding. 7. Utilization of truck mounted fog cannon system (12 KL). 8. Installation of 5 nos. PM10 online analyzers at mines for ambient air monitoring (Photographs of ponds, roads constructed within colliery, avenue plantation etc are attached as Annexure-VIII).</p> <p>Being Completed. The locations of monitoring stations are approved by Jharkhand Pollution Control Board. BCCCL has awarded the work order for the Project "Source apportionment of ambient air particulate matter in Jharia coalfields region, Jharkhand" to CSIR-NEERI, Nagpur vide Ref no. BCCCL/AGM/Envl/SOURCE APPORTIONMENT(MoU)/NEERI/2018/Dated 12.05.2018.NEERI, Nagpur and had submitted the final report on the Source apportionment study and the mineralogical composition study in the Jharia Coalfields dated January 2023 (report is attached as Annexure- IX).</p>
<p>xix</p> <p>The Plan for conveyor-cum-rail for Cluster-III should be dovetailed with Jharia Action Plan. The Committee desired that road transportation of coal during Phase-I should be by mechanically covered trucks, which should be introduced at the earliest. Coal dispatch shall be diverted from the present rail sidings to Rapid Loading System (RLS) soon after the construction and commissioning of the RLS at Maheshpur is completed. The railway siding order issued and same would come in 3 years. The details of same should be provided to ministry. The mode of transportation of coal by truck till Railway Siding should be by mechanically covered trucks.</p>	<p>Being Completed. At present transportation is being done by covered vehicle with a tarpaulin cover. Presently no OEM is supplying mechanically covered trucks for coal transportation. Construction of Rapid Loading System at Maheshpur is completed and will be operational after railway connectivity. Construction of Railway Siding for evacuation of coal through RLS (SLO) is being done by M/s RITES Ltd.</p>
<p>xx</p> <p>3756 nos. of PAF's should be rehabilitated at cost of Rs 27012.66 Lakhs as per the approved Jharia Action Plan.</p>	<p>It is being followed as per the approved Jharia action plan.</p>
<p>xxi</p> <p>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.</p>	<p>Being Completed. The work of monitoring of ambient environment including ground water monitoring is being done by Central Mine Planning and Design Institute (CMPDI). The Location and design of Piezometers to be installed have been finalized by CMPDI. Piezometer Installation: Construction for 3 nos. Piezometric well has been completed. 2 nos. DWLRs have been installed on Piezometric wells. Rainwater harvesting structures have been constructed at CISF Campus New Akashkhar Colliery. (Ground Water quality report (FY 23-24) with photographs of rain water harvesting structure is attached as Annexure-X.</p>
<p>xxii</p> <p>Regular monitoring of subsidence movement on the surface over and around</p>	<p>Being complied.</p>

	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 there is no de-pillaring activity in Cluster-III.
xxi	Sufficient coal pillars shall be left un-extracted around the air shaft (within the Subsidence influence area) to protect from any damage from subsidence, if any.	Being Complied. Sufficient coal pillars have been left around air shafts as per the statutes and DGMS guidelines.
ii		
xvi	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	It is being complied .
xv	Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains.	It is being complied. At present there is no de-pillaring activity in Cluster-III.
xx	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	It is being followed. Sufficient barriers are left for saving the surface Installation and infra structures as per the statute and DGMS guidelines.
xi	No de-pillaring operation shall be carried out below the township/colony.	It is being followed.
xx		
viii	A detailed CSR Action Plan shall be prepared for Cluster III group of mines. Specific activities shall be identified for CSR for the budget of Rs 139 Lakhs per year @ Rs 5/T of coal provided for CSR for 2012-2013 and Rs. 5/T of coal as recurring expenditure. The 491.91ha of area within Cluster III 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. The gap/space available between the entire mine area should be suitably planted with native species. Plantation should also be made in vacant area and along the road side so as to reduce dust pollution.	Being Complied. BCCL is implementing CSR activities. A separate CSR/Welfare committee has been formed at area level that will look after the works being executed under CSR. CSR dept. is established at the Headquarter level and area level for Executing the CSR Activities. All welfare/ CSR activities are also uploaded in Company web site https://www.bccclweb.in/?page_id=13446 . TISS has conducted survey to frame CSR policy for better implementation and monitoring of the CSR activities at BCCL HQ level. CSR activities have not been dealt at cluster level. However, expenditure was allotted and made at corporate level, i.e. M/s BCCL level and cluster III is contributor for the same. Details of CSR expenditure done at BCCL level is attached as Annexure-XI .

xxi	Central recreation park with herbal garden should be developed for use of all In habitants.	It is being complied . Herbal garden has been developed in cluster-III at Office of the General Manager. Recreational parks are being developed at Simdih Water Treatment Plant, New Akashkinaree Colliery Biological reclamation site. and Maheshpur Colliery for use of local people. Photos are attached as Annexure-IV
xx	The mine fl water should be treated properly before supply to villager.	Being Complied. Mine water is being supplied to nearby villages for drinking and other purpose after being filtered through filter plants. Details of beneficiaries and water quality reports are attached as Annexure-XII and XIII respectively.
xx	Details of transportation, CSR, R&R and implementation of environmental action plan for each of the clusters-II should be brought out in a booklet form Within a year and regularly updated.	Complied. CSR Booklet is being maintained at Cluster level.
xx	Central recreation park with herbal garden should be developed for use of all Inhabitants.	It is being complied . Herbal garden has been developed in cluster-III at Office of the General Manager. Recreational parks/Eco-parks are being developed at Simdih Water Treatment Plant, New Akashkinaree Colliery Biological reclamation site. and Maheshpur Colliery for use of local people. Photos are attached as Annexure-IV
xx	The mine water should be treated properly before supply to the villager.	Being Complied. Mine water is being supplied to nearby villages for drinking and other purpose after being filtered through filter plants. Details of beneficiaries and water quality reports are attached as Annexure-XII and XIII respectively.
xx	Details of transportation, CSR, R&R and implementation of environmental action plan for each of the clusters-III should be brought out in a booklet form within a year and regularly updated.	Being Complied. CSR Booklet is being maintained at Cluster level.
xx	Mine discharge water shall be treated to meet standards prescribed before discharge into natural water courses/agriculture. The quality of the water discharged shall be monitored at the outlet points and proper records maintained thereof and uploaded regularly on the company website.	Being Complied. Monitoring is being done by Central Mine Planning and Design institute (CMPDIL). The quality of water is within prescribed standards. Monitoring reports of Air (including heavy metal analysis), Water (drinking, Surface, discharge) and Noise is attached as Annexure-XIII
xx	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.	Being Complied. No ground water is being utilized for the purposes of Mining. Mine water is being supplied to nearby villages for drinking and other purpose after being filtered through filter plants. Details of beneficiaries and water quality reports are attached as Annexure-XII and XIII respectively.
xx	The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	
xx	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	Post mining requirement. Continuous process of the backfilling has been Adopted. A part of the void will be converted into the water body as specified in EC.

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	abandoned pits and voids should be backfilled with OB and reclaimed with plantation and or may be used for pisciculture.	
xx	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.	Being Complied. The work of monitoring of ambient environment including ground water monitoring is being done by Central Mine Planning and Design Institute (CMPDI). The Location and design of Piezometers to be installed have been finalized by CMPDI. Piezometer Installation: Construction for 3 nos. Piezometric well has been completed. 2 nos. DWLRs have been installed on Piezometric wells. Rainwater harvesting structures have been constructed at CISF Campus New Akashkinaree Colliery. (Ground Water Quality report (FY 23-24) with photographs of rain water harvesting structure is attached as Annexure-X .
xvi	Rainwater harvesting	
ii	measures shall be undertaken in case monitoring of water table indicates a declining trend.	
xx	ETP shall also be provided for workshop, and CHP, if any. Effluents shall be treated to confirm to prescribe standards in case discharge into the natural water course.	It is being complied . Oil & grease trap exists at Simidh workshop.
xix		
xl	The location of monitoring stations in the Jharia coalfield should be finalized in consultation with Jharkhand State Pollution Control Board.	It is being complied .
xli	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar.	Being Complied. CMPDI is conducting "Time series of land use maps based on satellite imagery of the core zone and buffer zone in the scale 1:5000 on cluster basis every 03 year. Land use map report for cluster-III is attached as Annexure-XIV .
xlii	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.	Being complied. Mine closure plan as per the guidelines of Ministry of Coal has already been prepared by Central Mine planning and Design Institute, Dhanbad and approved by BCCL Board on 21.09.2013. The financial provisions required for the implementation of mine closure plan are being kept in accounts. Details of amount kept in escrow account is attached as Annexure-II and copy of mine closure plans can be accessed through link https://drive.google.com/file/d/1FMbYar-JDF4Ynev2Rdkuy5gqO871pC9h/view?usp=drive_link
xlii	A separate management structure for implementing environment policy and socio-economic issues and the capacity building required in this regard.	Being Complied. Environment Engineers are provided at Mine and Area level. Environment Management cell has been constituted at Area level with GM as Chairman.
v		

<p>xlv Corporate Environment Responsibility:</p>	<p>A full-fledged Environment Department, headed by a HOD (Environment) along with a suitable qualified multidisciplinary team of executives has been established in Headquarters. Community Development executives support capacity building.</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>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>Being Complied.</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. https://www.bclweb.in/environment/CEP_280220.pdf</p> <p>Complied.</p> <p>A hierarchical system of the company to deal with environmental issues from corporate level to mine level already exists.</p> <p>Environment Management cell has been constituted at Area level with GM as Chairman.</p> <p>Internal Monitoring Mechanism is in place.</p>																
<p>B EC Conditions (General):</p>	<p>Being Complied.</p>																
<p>i No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.</p>	<p>Being Complied. Production is being done well within the peak production capacity as per EC. Details of production from cluster-III is given below:</p> <table border="1" data-bbox="279 1155 491 1953"> <thead> <tr> <th colspan="2">EC capacity (MTY)</th> <th colspan="3">Actual Production (MTe)</th> </tr> <tr> <th>Normative</th> <th>Peak</th> <th>FY 2021-22</th> <th>FY 2022-23</th> <th>FY 2023-24</th> </tr> </thead> <tbody> <tr> <td></td> <td>2.769</td> <td>3.600</td> <td>0.7861</td> <td>0.850105</td> <td>0.976296</td> </tr> </tbody> </table>	EC capacity (MTY)		Actual Production (MTe)			Normative	Peak	FY 2021-22	FY 2022-23	FY 2023-24		2.769	3.600	0.7861	0.850105	0.976296
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Normative	Peak	FY 2021-22	FY 2022-23	FY 2023-24													
	2.769	3.600	0.7861	0.850105	0.976296												
<p>ii No change in the calendar plan of production for quantum of mineral coal shall be made.</p>																	
<p>iii Four ambient air quality monitoring stations shall be established</p>	<p>Being Complied. Location of Four ambient air quality monitoring stations for</p>																

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<p>in the core zone as well as in the buffer zone for PM10, PM2.5, SO2 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.</p>	<p>the cluster is approved by Jharkhand pollution control Board. The work for monitoring of ambient environment is being done by Central Mine Planning and Design institute (CMPDIL). Monitoring reports of Ambient Air (heavy metal analysis), Water are attached as Annexure-XIII and</p>						
<p>iv Data on ambient air quality (PM10, PM 2.5, SO2 and NOx) 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 recognized under the EPA rules, 1986 shall be furnished as part of compliance report.</p>	<p>Being Complied. The work for monitoring of ambient environment is being done by Central Mine Planning and Design institute (CMPDIL). Monitoring reports of Air (including heavy metal analysis), Water (drinking, surface) and Noise is attached as Annexure-XIII. Random verification has been completed by IIT (ISM) Dhanbad.</p>						
<p>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.</p>	<p>Being Complied. Details of ear plugs/muffs and dust masks distributed is as below:</p> <table border="1" data-bbox="698 1134 771 1974"> <thead> <tr> <th>Year</th> <th>Dust masks (nos.)</th> <th>Ear plugs (nos.)</th> </tr> </thead> <tbody> <tr> <td>2023-24</td> <td>80</td> <td>60</td> </tr> </tbody> </table>	Year	Dust masks (nos.)	Ear plugs (nos.)	2023-24	80	60
Year	Dust masks (nos.)	Ear plugs (nos.)					
2023-24	80	60					
<p>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 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.</p>	<p>Being Complied. Discharge of water confirms to applicable standards. Oil & grease trap exists at workshop and (Water quality report is attached as Annexure-XIII.</p>						
<p>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.</p>	<p>Being Complied. Regular maintenance of vehicles is being done. Vehicles with valid Pollution under control certificates are being used for coal transportation. Covered transportation on public is in practice.</p>						
<p>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.</p>	<p>Being Complied. The locations of monitoring stations are approved by Jharkhand Pollution Control Board. Monitoring is being done by CMPDIL. Monitoring reports of Air (including heavy metal analysis), Water (drinking, surface) and Noise is attached as Annexure-XIII.</p>						
<p>ix Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety</p>	<p>Being Complied. A separate full-fledged Human Resource Development Department is conducting regular training programme on these issues.</p>						

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and health aspects.

Apart from this Vocational Training Centers are existing in Cluster-III which provides periodical training on the safety and occupational health issue to each of the workers working in the mines. Details of training conducted at VTC for **FY 2023-24** are given below:

Type of Training	Number of Persons
Basic	11
Refresher	569
Safety Committee Recommendation	270
MVT training	182
Total	560

Details of protective devices distributed (Up to 30.09.2023) to workers engaged in mining activities are as below:

Year	Dust masks	Ear plugs
FY-2023-24	80	60

Being Completed. Initial Medical Examination (IME) and Periodical Medical Examination (PME) of all the personnel are carried out as per the Statutes and Director General of Mines Safety (DGMS) guideline. Details of PME conducted for FY 2023-24 are:

Name of Colliery	PME's conducted
New Akashkinaree Colliery	322
Block-IV/Kooridh Colliery	243
Maheshpur Colliery	120
Jogidh Colliery	90

Being Completed. Environment Engineer provided at Mine and Area level. Environment Management cell has been constituted at Area level with GM as Chairman. A full-fledged Environment Department, headed by a HOD (Environment) along with a suitable qualified multidisciplinary team of executives has been

Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.

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.

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.	established in Headquarters. Being Complied. A separate fund under the environmental protection measures has already been allocated. Expenditure details as per EIA/EMP for FY 2022-23 are enclosed as Annexure-XV
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.mic.in .	Advertised timely, Complied. Advertisements published and EC letter circulated to concerned panchayats have been attached as Annexure-XVI.
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. EC on receipt circulated to all concerned authorities (EC letter circulated to concerned panchayats have been attached as Annexure-XVII).
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.
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 PM10, PM2.5, SO2 and NOx (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. Environmental Clearance and Six monthly compliance of Environmental Clearance along with monitoring reports are uploaded on BCCCL website.
xvi i	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.

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xvi	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 .
ix	The Environmental statement for each financial year ending 31 March in Form -V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEFCC by E-mail	Being Complied. Environmental Statement is regularly submitted (Copy attached as Annexure-XVIII).
C EC Conditions (Other):		
i	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Conditions of CTO are being complied .
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.	All condition complied to avoid this condition.
iii	The above conditions will be enforced <i>inter-alia</i> , 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 . Conditions of CTO are being complied . The storage of material is below threshold attracting Public Liability Insurance Act, 1991.
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 orders issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court.	Agree.

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