

Compliance Status of Conditions of Environment Clearance
(Against EC letter no. J-11015/243/2011-IA.II(M) dated 26.07.2022)

Sl No.	Activities	Compliance Status
3(i)	PP shall submit Certified Compliance Report of the EC vide No. F. No. No. J- J-11015/243/2011-IA.II (M). dated 12th March, 2018 granted for total 40% expansion, along with EIA/EMP report, prepared based on standard ToRs for the additional capacity of 10% on PARIVESH portal within six months of enhancement of production beyond 40%.	Latest certified compliance report against EC letters no. J-11015/243/2011-IA.II(M) dated 19.05.2022 & 12.03.2018 for 7 MTPA capacity (i.e. 40% expansion) has been given by Regional Office File No. IV/Env/UP/Mine-57/500/2018 dated 12.07.2022. Preparation of EIA/EMP report based on standard ToR is under preparation by CMPDIL and same will be submitted well before the due date.
3(ii)	In view of above (i), Ministry shall ascertain the adequacy of the proposed environmental safeguards and stipulate necessary conditions, if required, which shall be monitored as a part of the EC compliance monitoring.	The condition will be complied as per the directions of MoEF&CC.
3(iii)	PP shall obtain necessary prior consent for enhanced capacity from State Pollution Control Board under Air and Water Act.	Krishnashila Project have obtained Consent to Establish for 7.5 MTPA capacity from UPPCB vide letter No. 62356/UPPCB /Sonebhadra (UPPCBRO) /CTE /SONBHADRA/2022 dated 08.09.2022. Application for Consent to Operate has already been submitted.
3(iv)	Environmental quality parameters arising out of proposed expansion shall be within the prescribed norms and the same shall be maintained as per prescribed norms.	As per the latest monitoring reports for Quarter Ending Sept 2022, environmental quality parameters in core & buffer areas of the project are well within the prescribed limit (reports enclosed). Further study for the same is going on in this regard and the report of the same will

		be submitted.
3(v)	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India & Ors vide its judgment dated 8th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent".	In 2022-23, a total of 112500 nos. plants have been planted on 45 Ha. land. Additionally grassing on 10 ha. land and Miyawaki plantation on 0.5 Ha. land have also been completed. As of now, Krishnashila Project has already reclaimed around 183 Ha. Land with plantation of over 5 lakhs saplings. The phase wise technical and biological reclamation of mining area is going on as per approved Mining/Mine Closure Plan. Further, annual mine closure cost is being deposited to Escrow account.
3(vi)	All other terms and conditions as prescribed in Ministry's letter dated 22.08.2014, 13.02.2017 and 12.03.2018 shall remain the same and need to be complied by PP.	The conditions mentioned as per the mentioned letters have been complied/or being complied by the project.
Additional Conditions as area Falls under Severely Polluted Area (SPAs)		
(i)	Transportation of materials by rail/conveyor belt shall be implemented	At present, 56% coal is transported through rail, 32% coal is transported through Belt Piped Conveyor (BPC) and only 12% coal is transported through road. The 4 MT coal handling plant has been installed and is now operational. It is equipped with a silo for rapid loading of coal onto railway wagons.
(ii)	Encourage use of cleaner fuels for trucks, If the roads required to be widened upto nearest railway siding, the same be constructed to avoid	The railway siding for coal despatch is inside the mine lease and the coal transportation roads of sufficient capacities have been provided for the

	traffic congestion.	same. Possibility of cleaner fuel options like e vehicles and hybrid vehicles for departmental equipment is also being explored.
(iii)	Increase green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	As per the EMP and Mine closure plan of the project, afforestation will be done on a total of 77% area of the project.
(iv)	Greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc. shall be implemented.	The project is planting and distributing nearly 4500 nos. fruit plants in nearby areas every year. Apart from this, project has also planted sapling in colony, nearby villages etc.
(v)	Assessment of carrying capacity of mine & road transportation shall be done as per the State Plan/instructions.	The same is under preparation. At present, Krishnashila Project is despatching only a small amount of coal through road mode. The condition will be complied.
(vi)	Reuse/recycle of treated wastewater shall be implemented as feasible with latest technology. Zero liquid discharge concept may be adopted.	Krishnashila mine is complying ZLD. The treated water from integrated ETP is being reused for sprinkling and horticulture purposes.
(vii)	PP to install Continuous monitoring station for ambient air quality and also continuous effluent quality in ETP shall be installed. Data so generated shall be linked with respective SPCB and CPCB websites.	NCL has already installed 09 nos. CAAQMS in the NCL command area. The data generated has already been shared with SPCB and CPCB. The installation of continuous effluent monitoring system will be done in the project at the earliest.
(viii)	A detailed water harvesting plan may be prepared by the project proponent for water augmentation and submitted to Regional Office of MoEF&CC.	The detailed water harvesting plan is being prepared and the same will be submitted to Regional office of MoEF&CC.
(ix)	The project proponent shall install STP for generated domestic wastewater and should meet for discharge standards.	The employees of Krishnashila project are residing in Bina project colony. A STP of 2.5 MLD has already been implemented in the same which is sufficient to cater the load.

(x)	More stringent norms for management of hazardous waste like oil container, ETP sludge etc shall be adopted. The waste generated should be preferably utilized in co-processing.	The hazardous waste like burnt oil, ETP sludge from the project is being sold to recyclers. The Oil containing waste is being sent to TSDF facilities. Project is complying the conditions imposed by UPPCB in Hazardous waste Authorisation letter.
(xi)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	ICFRE has conducted yearly audit in the current year. The practice will be followed in the upcoming years.
(xii)	Fund allocation for Corporate Environment Responsibility (CER) which is atleast 1.5 times as per OM of 1st May, 2018 may now be considered as 1.5 times of fund allocated on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	The proposal for water harvesting and afforestation under CER of the project is being prepared. The same will be implemented at the earliest. Time bound action plan of the same will be submitted to the office on priority basis.

Area General Manager
Krishnashila Project
Northern Coalfields Limited

Compliance Status of Conditions of Environment Clearance

(Against EC letter no. J-11015/243/2011-IA.II(M) dated 12.03.2018)

Sl No.	Activities	Compliance Status
(i)	Adequate ambient air quality monitoring stations shall be established in consultation with State Pollution Control Board, and regular monitoring shall be carried out for particulate emissions (both PM10 & PM2.5), SO ₂ & NO _x . The monitoring result for the period during summer season (April-June, 2018) shall be submitted to State PCB and Regional Office to this Ministry.	08 nos. Ambient air quality monitoring stations (04 nos. in core and 04 nos. In buffer zone) have already been established in the past. The required report for the given period for particulate matter, SO ₂ & NO _x have already been submitted to UPPCB, CPCB and RO, MOEF&CC, Lucknow. The latest report is hereby enclosed.
(ii)	The EAC shall review the compliance of the actions taken on the observations of the Regional Office before December 2018, and make its recommendations for continuance of the project thereafter. Also based on the monitoring results, the committee shall examine adequacy and efficacy of the pollution control measures and its impact on ambient air quality.	The EAC has already reviewed the compliance of the actions taken of the observations of the Regional Office, Lucknow and recommended for continuance of the project vide letter no. J-11015/243/2011-IA.II(M) dated 19.05.2020.
(iii)	To control the dust generation at the source the crusher and the belt pipe conveyors shall be provided with mist type sprinklers.	Sprinkling arrangements have been provided at the crushers and belt pipe conveyors in the project.
(iv)	Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient number of water sprinklers, preferably mist type mobile sprayers/ sprinklers.	For control of dust and other fugitive emissions along the roads, following arrangements have been done- Fixed sprinklers have been provided on coal transportation road between coal stockyard and wharfwall. 04 nos. 28KL capacity mobile water sprinklers are being used 08 nos. Water sprinklers of different capacities (10-12KL) are being used by Outsourcing agencies.

		<p>01 no. truck mounted fogging machine is being used for control of fugitive dust in the area.</p> <p>01 nos. domestic road sweeping machine has also being used by the project</p>
(v)	Regular monitoring of occupational safety and other health hazards of all employees including outsourced workers and the corrective actions shall be ensured. Report in this regard be submitted to the Regional Office of the Ministry.	Regular monitoring by Directorate General of Mines Safety (DGMS), ISO teams for monitoring of occupational safety and other health hazards is being done. Report of the same has already been submitted.
(vi)	Controlled blasting techniques should be adopted to control ground vibration and fly rocks.	To control ground vibrations and fly rocks, blasting techniques like delay detonator, cord relays etc are being used.
(vii)	Persons of nearby villages shall be given training for their livelihood and skill development.	<p>The following trainings were given to the persons of nearby villages for skill development under CSR-</p> <ol style="list-style-type: none"> 1. Mobile Repairing Training- 40 Persons 2. Motor Rewinding Training- 18 Persons 3. Beauty Parlour Training- 50 Persons 4. Soft Toy Making Training- 60 Persons 5. Carpet Tufting Training- 60 Persons 6. Jewelry Making Training – 30 Persons 7. Job Based Assistant Electrician Training- 100 8. Job Based Skill Training for Sewing- 150 Nos. (running)
(viii)	To ensure health and welfare of the nearby villages, regular medical camps shall be organised and report shall be submitted to Regional Office of the Ministry.	Regular health camps in nearby village are being organized. 06 nos. Medical camps and Nutritional camps have been organised in past 06 months.

Mining		
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there- under as applicable.	All the provisions of the Mines Act 1952 and other subordinate legislations are being followed by Krishnashila Project.
(ii)	No change in mining method i.e. OC to UG, calendar programme and scope of work shall be made without obtaining prior approval to the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Mining method, calendar programme, scope of work are being adhered to.
(iii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) by Directorate General Mines Safety (DGMS).	Mining in Krishnashila Project is being carried out as per the approved mining plan (including Mine Closure Plan) by Directorate General of Mines Safety (DGMS).
(iv)	No Mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.	Project has already obtained necessary clearances as per Forest (Conservation) Act 1980 and other acts prior to commencement of mining activities.
Land reclamation and water conservation		
(i)	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/Regional Office (RO).	CMPDIL has carried out digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey. The report for the same has been submitted.
(ii)	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the	There is no river, nalla or water body within lease hold area of mine. Surface drainage plan with water conservation plan has been prepared.

	approved mining plan/ EIA/EMP report and with due approval of the concern state/GoI authority. Construction of Embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of the DGMS.	
(iii)	The final mine void depth should be preferable be as per the approved mine closure plan, and in case it exceeds 40 m, adequate engineering intervention shall be provided for sustenance of aquatic life therein. The remaining area shall be back filled and covered with thick and alive top soil. Post-mining land be rendered usable for agriculture/forestry proposes and shall be handed over to the respective State Government as per specified in the guidelines for preparation of mine closure plan issued by the Ministry of Coal, Dated: 27.08.2009 and subsequent amendments.	This condition is not applicable as of now. It will be complied at the end of mining.
(vi)	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining/”Post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office on Six monthly basis.	The approved mine closure plan and EIA/EMP already included stage wise plans for excavated area, backfilling, external OB dumping and afforestation. The progressive status report in enclosed.

(v)	<p>The top soil shall temporarily be stored at earmarked sites (s) only and shall not be kept unitized for long. The top soil shall be used for land reclamation and plantation purpose. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office on Six monthly basis.</p>	<p>As the terrain is hilly, there is negligible top soil is present in area. However, available top soil is being stacked and used. For control of erosion and stability of over burden dump and backfilled area, grass and native flora species are being planted. The details of plantation done on overburden/backfilled area are enclosed.</p>
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Emissions, effluents, and waste disposal

(i)	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyor. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality, parameters conform to the norm prescribed by the Central/State Pollution Control Board.</p>	<p>Most of the coal is being despatched from the project through Belt Pipe Conveyor and Rail. Small portion of coal despatch is being done to small and local consumer through road mode which is allowed under e-auction scheme. This is being done through trucks fully covered through tarpaulin. For control of fugitive dust, water sprinting is being done on OB and coal transportation roads using mobile and fixed water sprinklers.</p> <p>Fixed sprinklers have been provided on coal transportation road between coal stockyard and wharfwall.</p> <p>01 nos. truck mounted fogging system is being utilized for control of dust in the area.</p> <p>All out measures are being taken to keep parameters within the limits prescribed by GSR 742 (E) 2000 notification.</p>
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(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area in a phased manner. The green belt comprising a mix of native species shall be developed all along the major approach/coal transportation roads.	This is in the process of development in the Krishnashila Project. Plantation is being done in phased manner along all OB and Coal transportation road.
(iii)	The Transportation of coal shall be carried out as per the provisions and route proposed in the approved Mining Plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	Most of coal is being despatched from the project through Belt Pipe Conveyor and Rail. A small portion of Coal despatch allowed under e-auction scheme to small and local consumer through road mode is being done through PWD road.
(iv)	Vehicular emission shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.	Vehicular emissions are being tested regularly.
(v)	Coal stock pile/crusher/feeder and breaker material transfer points shall be fully covered to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	All the transfer points of belt pipe conveyor/crushers have been provided with dust control and suppression systems. Coal Handling Plant (4 MTY) of Krishnashila has been provided with Cold fog dust suppression (CFDS) and Medium velocity water sprinkling system (MVWS). Also drills have been provided with cyclonic dust suppression and wet drilling arrangements.
(vi)	Coal handling plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc to check fugitive emission from crushing operations, conveyor system, transfer points, etc.	Coal Handling Plant of Krishnashila Project has been provided with cold fog dust suppression and medium velocity water spraying system.

(vii)	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.	No ground water is being used for mining operations. Rain water stored during monsoon is being used for sprinkling and horticulture purposes.
(viii)	Catch/garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent runoff of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/compacted accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any, at the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.	Catch drains/garland drains have been provided along OB dumps/ backfilled area to prevent direct runoff outside the mine. Gabions have been provided to check flow of silts into the collection ponds. Water collected during monsoon is used for dust suppression and horticulture purposes. Retaining walls have been constructed along the OB dumps. Plantation of native species is being done for stability of OB dumps/backfilled area.
(ix)	Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (protection) act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.	Waste water generated during washing of HEMMs and from CHP is being treated in effluent treatment plant and reused for sprinkling purposes. No mine water is being generated. STP of Bina project (2.5 MLD) is being used by Krishnashila Project as the colony is same.

(x)	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village (s) in case the village wells go dry due to dewatering of mine.	Rainwater is being collected and used for dust suppression purposes. There is no effect of mining on the water level of nearby villages adjacent to the mine. The ground water monitoring report is enclosed.
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Illumination, Noise & Vibration		
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(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry & its RO on six-monthly basis.	Sufficient lighting arrangements as per DGMS standards have been provided at different locations in the mine. The illumination survey report is enclosed.
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(ii)	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like earplugs/muffs in conformity with the prescribed norms and guidelines in this regards. Adequate awareness programme for users to be conducted. Progress in usage for such accessories to be monitored.	Noise levels are being maintained below 85 dB around the working area in the mine (report enclosed). Personal protective equipments (PPE) like earplugs and earmuffs have been provided to all persons working in the area of high noise in the mines (list enclosed).
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(iii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.	To control ground vibrations and fly rocks, blasting techniques like delay detonator, cord relays etc are being used.
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(iv)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on Six-monthly basis.	The noise level survey is being carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises (report enclosed).
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Occupational Health & Safety		
(i)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.	Initial medical examination (IME) of all the departmental and contractual workers joining project is being done. Periodic medical examination (PME) of all workers engaged in the mine area is being done regularly. Periodic Medical Examination in Calender Year 2022 till now- 61 nos. Initial Medical Examination in Calender Year 2022 till now- 175 nos.
(ii)	Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	Dust masks and other PPEs have been provided to personnel working in mine (list enclosed). Adequate training and information on safety and health aspects is being provided.
(iii)	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.	<u>Training provided (2022 till now)</u> Departmental refresher training- 61 Departmental Basic training- 14 Contractual Basic Training- 192 Other type Training (First Aid/Firefighting etc) -275 Training at Central Excavation Training Institute- 152
Ecosystem and Biodiversity conservation		
(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. The Action plan in this regards, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	There is no species of endangered flora/fauna are found in mine lease area. However mining operations are planned in way to minimize effect on flora/fauna in the area.

Public Hearing, R&R and CSR		
(i)	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	All the issues raised during public hearing have been resolved. All the land oustees of the project have been compensated as per the R&R policy of the company.
(ii)	The Project proponent shall ensure expenditure towards socio-economic development in and around the mine, in every financial year in pursuance of the Corporate Social Responsibility Policy as per the provision under section 135 of the companies' act 2013.	CSR activities have been carried out in villages around the mine (report enclosed).
(iii)	The proponent shall follow the mitigation measure, provided in this ministry's OM No. Z-11013/5712014-IA.11 (M) Dated 29 th October, 2014, titled 'Impact of mining activities on habitations-issues relate to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	Krishnashila Project is using environment friendly methods of coal mining and transportation such as Surface Miner and Belt Pipe Conveyor. Adequate arrangement for arresting silt such as garland drains, catch drains, gabions, intermediate and main sumps etc have been provided. Mining operation of the mine is not affecting the quantity of available water in nearby villages/areas (report enclosed). A number of CSR activities is also being taken in nearby village every year (Report enclosed). Adequate arrangements have been provided for sprinkling and vibration control during blasting. No transportation is being carried out on village roads.
(iv)	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	This is not applicable in case of Krishnashila Project.

Corporate environment responsibility

(i)	The company shall have a well laid down environment policy duly approved by board of directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. Also, the company shall have a defined system of reporting of non-compliances/ violations of environmental norms to the Board of Directors and/or shareholders/stakeholders.	It is being complied.
(ii)	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the company.	The same has been displayed on the company's website www.nclcil.in
(iii)	A separate environmental management cell both at the project and company headquarters level, with suitable qualified personnel shall be set-up under the control of senior executives, who will report directly to the Head of the Organization.	A separate environment management cell under Director (Tech/P&P) at HQ level and under Area General Manager at project level have been created in all projects of NCL.
(iv)	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Self intra and inter project audit under Integrated Management System is being done in every month. Environmental audit by C&AG has been carried out in all projects of NCL.

Statutory Obligations		
(i)	The environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other court of Law from time to time, and as applicable to the project.	Any such order shall be complied.
(ii)	The environmental clearance shall be subject to obtaining wildlife clearance, if applicable, from the standing committee of National Board for Wildlife.	This is not applicable for Krishnashila Project.
(iii)	The Project proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and the Water Act, 1974 from the concerned State Pollution Control Board.	CTE for 7 MTPA capacity has been obtained by the project by letter no. 15656/UPPCB/Sonebhadra (UPPCBRO)/CTE/SONBHADRA/2018 dtd 09.05.2018. The CTO for air & water has been obtained by the project vide letters 136689/UPPCB/Sonebhadra(UPPCBRO)/CTO/air/SONBHADRA/2021 & 137017/UPPCB/Sonebhadra(UPPCBRO)/CTO/water/SONBHADRA/2021 dtd. 14.10.2021 and is valid upto 31.12.2026.
(iv)	The Project proponent shall obtain the necessary permission from the Central Ground Water Authority (CGWA).	No ground water is being used for mining operations in Krishnashila Project. The application for obtaining necessary prior permission from the Central Ground Water Authority (CGWA) was submitted on 29.09.2019 and the same got approved. However the necessary permission letter could not be obtained as separate portal was started from Dec'20 for industries based in UP. Communication has been done regarding the same. Even at present i.e. in the end of 2022 the portal has not started processing of applications for mine.

Monitoring of Project		
(i)	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2, NOX 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. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.	Total eight numbers of ambient air quality monitoring stations have been provided in core and buffer zone for monitoring of PM2.5, PM10, SO2, NOX. The latest monitoring report is enclosed. Half yearly monitoring of heavy metals such as Hg, As, Ni, Cd, Cr is also being carried out (report enclosed). Installation of 09 nos. online ambient air quality monitoring stations in NCL colonies has been done.
(ii)	The ambient air quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.09.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.	The ambient air quality monitoring in the core zone is being carried out on fortnightly basis to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.09.2000. Half yearly monitoring of heavy metals such as Hg, As, Ni, Cd, Cr is also being carried out (report enclosed).
(iii)	The effluent discharge (mine water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.09.2000 and as amended from time to time by the Central Pollution Control Board.	The treated water is being reused. There is no discharge from the mine.
(iv)	The Monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11	It is being complied.

	(M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	
(v)	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre monsoon, monsoon and winter. The ground water quality shall be monitored once year, and the data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change/Regional Office.	It is being complied. The latest monitoring report is enclosed.
(vi)	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	This is not applicable for Krishnashila Project.
(vii)	The Project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years.	It is being done by the project.
(viii)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions, the project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	It is being complied.

Miscellaneous		
(i)	Effort should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	Replacement of tube lights, mercury lamps with LEDs, procurement of 5 star rated appliances have been done to reduce energy consumption.
(ii)	The project authorities shall inform to the Regional Office regarding commencement of mining operations.	It is being complied.
(iii)	A copy of the environmental clearance shall be marked to concerned Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's Office/ Tehsildar Office for information in public domain within 30 days.	It has been complied.
(iv)	The EC shall be uploaded on the company's website. The compliance status of the stipulated EC 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 EC letter has been uploaded on company's website. The latest compliance status will be uploaded.
(v)	The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at website of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same shall be forwarded to	The project has already advertised in two local news papers in vernacular languages (in Aaj and Hindustan newspapers of varanasi region). The copy of clearance letter has also been sent to UPPCB.

	Regional Office.	
(vi)	The environment 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 as prescribed under the Environment (Protection) Rules, 1986, as amended compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail concerns during public hearing.	It is being complied. The latest environment statement in form-V has been submitted to UPPCB vide letter no. KSL/GM/Environment/2022-23/177 dated 22.09.2022.
(vii)	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 Act, the Environmental (Protection) Act, 1986 and the Public Liability Insurance Act, 1994 along with their amendments and rules and any other orders passes by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	All the amendments, rules and orders passed by Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 Act, the Environmental (Protection) Act, 1986 and the Public Liability Insurance Act, 1994 are being complied.

Area General Manager
Krishnashila Project
Northern Coalfields Limited

Compliance Status of Conditions of Environment Clearance

(Against EC letter no. J-11015/243/2011-IA.II(M) dated 19.05.2020)

Sl No.	Activities	Compliance Status
(i)	EAC desired that the MoC may direct CIL subsidiaries to comply the EC/FC/CTO conditions strictly within certain time bound manner so that the mining operations will be environmentally sustainable/viable etc.	Krishnashila Project is strictly complying the conditions of EC/FC/CTO.
(ii)	All the partially complied condition observed by Ministry's Regional Office in certified compliance report of RO, Lucknow dated 6th January, 2020 shall be completed in 3 years. An action plan with timeline for compliance should be submitted to RO. Lucknow in two months from the date of issue of the letter.	The status and action plan for completion of partially complied conditions observed by Ministry's Regional Office is certified compliance report of RO, Lucknow dated 6th January, 2020 has already submitted to Regional Office, MoEF&CC, Lucknow. Most of the partially complied conditions have been complied.
(iii)	PP shall submit action plan for controlling/mitigating air pollution to RO, Lucknow in two months from the date of issue of the letter.	Action plan for controlling/mitigating air pollution has already been submitted to Regional Office, MoEF&CC, Lucknow.
(iv)	Project proponent to plant 100,000 nos. of native trees with broad leaves along the periphery of the mine to prevent the effect of air pollution in 3 years of the issue of this letter. After completion of tree plantation, number of trees shall be duly endorsed from District Forest Officer	The plantation of sapling on OB, avenue plantation and for green belt development is being done in the project by state forest department on MoU basis. In 2021-22, a total of 75000 nos. Trees of native species have been planted in the project. Further Plantation of 17500 native species of trees has been planted through Miywaki technique on 0.5 Ha. area of OB dump.
(v)	Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles	Spreading of Deenanth grass (Pennisetum pedicellatum) alongwith local species of millets (kodo, medo, sanayi etc) and legumes (jugli tur) is

		being done on barren OB dumps.
(vi)	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity	The working are is at arial distance of around 1.5 Kms (3-4 Kms) from the nearby habitation. There is no case of blasting permission from DGMS for conducting mining operation near villages. Further all the required permissions have been obtained from DGMS.
(vii)	The Project Proponent shall comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department in strict compliance of judgment of Hon'ble Supreme Court dated the 2nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors.	There is no such case of mining without required statutory permissions in the project.
(viii)	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commencing after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly bases on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.	The application for obtaining necessary prior permission from the Central Ground Water Authority (CGWA) was submitted on 29.09.2019. However the necessary permission could not be obtained as separate portal was started from Dec'20 for industries based in UP. The newly started portal is still not accepting the applications for mining purposes. Communication has been done regarding the same.

(ix)	<p>Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of antsnake venom including all other paramedical safeguards may be ensured before initiating the mining activities.</p>	<p>The initial medical examination (IME) and periodic medical examination (PME) of all departmental and contractual employees is being done by the area medical officer and records are being maintained at the hospital.</p> <p>The recommendation of study done by National Institute of Occupational Health, Ahmadabad are being implemented. Regular cleaning and spraying of insecticide is being done by the project in nearby area to control malaria, dengue and other diseases. The medicines for treatment of burns, malaria and the antivenom for snake bites are available at the Bina Atal hospital.</p>
(x)	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".</p>	<p>In Krishnashila project, following measures have been taken as per office memorandum no. Z-11013/57/2014-IA.II (M), dated 29th October, 2014:</p> <p>(i) Sufficient length of garland drains (around 3.50 kms), retaining walls (around 3.50 kms) have been built. Settling ponds have been provided to arrest silt during rainy season.</p> <p>(ii) There is no transportation of coal through village roads from the project.</p> <p>(iii) For sprinkling on haul and coal transportation roads, 04 nos. Departmental mobile water sprinklers (28 KL) and 08 nos. Contractual mobile water sprinklers (10-12KL) have been provided. Fixed sprinklers have been provided along coal transportation road between coalyard and wharfwall. 01 no. Truck mounted fogging machine have been provided for controlling fugitive</p>

		<p>dust in the area.</p> <p>(iv) There is no disturbance due to illumination and noise at the night in the nearby habitations by the project authorities.</p> <p>(v) There is no diversion of any natural water body done by the project.</p> <p>(vi) To control ground vibrations and fly rocks, blasting techniques like delay detonators, cord relays etc. Are being used.</p>
(xi)	<p>The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPS must ensure that the biological clock of the villages is not disturbed: by orienting the floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours</p>	<p>The active mining area of the project is around 3-4 kms form the nearby habitations. There is no disturbance due to illuminations and noise at the night in the nearby habitations by project activities. Fortnightly monitoring of noise levels in active zone is being done.</p>
(xii)	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to Ministry of Environment, Forest and Climate Change and its Regional Office.</p>	<p>As per the base line study data of the area, there is no species of fauna in and around project area which is protected in the endangered or endemic. However all precautionary measures during mining operations for conservation and protection of endangered fauna will be taken, if spotted.</p>
(xiii)	<p>Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014. Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has</p>	<p>The amount for mine closure plan is being deposited in advance in escrow account managed by coal controller. The</p>

	<p>directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the Ministry.</p>	<p>activities mentioned in mine closure plan is being implemented in phased manner to restore the land to a condition which is fit for growth of fodder, flora, fauna etc.</p> <p>It will be complied at the end of mining.</p>
<p>Additional Specific as the area falls under Severely Polluted Areas (SPAS)</p>		
xiv	<p>CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24th October, 2019 while issuing the CTE/CTO project, for improvement of environmental quality in the area.</p>	<p>The project has already obtained CTE/CTO from UPPCB.</p>
(xv)	<p>The green belt of at least 5-10 m width shall be developed in more than 40% (in place of EAC recommended 33%) of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>	<p>The green belt as per the recommendation is being developed by the project in phased manner. The total green belt area at the end of mining will be 657.98 Ha. out of 851.78 Ha. (77%).</p>
(xvi)	<p>In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.</p>	<p>Plantation in colony area, nearby villages is being done by the project under van mahotsava/swachhta pakhwada every year. Distribution of 5000 nos. Fruit plants saplings were distributed by the</p>

		project in the nearby area.
(xvii)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	It will be complied with.
(xviii)	The percentage the CER may be atleast 1.5 times the amount given in the OM dated 1st May, 2018 recommended by the EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office	The action plan for CER is under preparation. It will be sent after approval.
(5)	All other terms and conditions stipulated in the previous ECS mentioned in para (2) above shall also be applicable.	The conditions mentioned in previous EC letters are being complied by the project.

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