EASTERN COALFIELDS LIMITED

HALF YEARLY EC COMPLIANCE REPORT H/Y - April 2024 -Sep 2024 CLUSTER NO.3, SALANPUR AREA EC No. J-11015/13/2010-IA-II.(M) dt. 20-10-2014 Amended EC No. J-11015/13/2010-IA-II(M) dated 07-08-2019 Compliance Of Environment Clearance Conditions

SI no.	Specific Conditions	Compliance s	status	
i.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Mine	Peak EC Capacity(MTY)	2023-24 (MTY)
		Dabor OC	2.30	0.067
		Bonjemehari OC	1.47	0.162
		SangramgarhOC	0.20	0.00
		Total	3.97	0.229
			e maximum pro	
ii.	No mining operations shall be undertaken of forestland prior clearancehas been obtained under the provisions of FC Act,1980.	No forest land lease area.	d is present ur	nder cluster-3
iii.	The validity of the EC is for the life of the Mine oras specified in the EIA Notification, 2006, whichever is earlier.	life of the mir	ne or as spec 006,	
iv.	External OB dumps shall be fully re-handled in internal dumps. There shall be no external dump after the mining.	being carried mining plan ar	l ied : Progress out as per nd external OB handled as per ing.	the approved dump will be
V.	Adequate numbers of piezometers to be installed at the aquifer level and the ground water table shall be monitored.	installed in (monitoring of	Piezometers Cluster-3 mine ground water 1 PDI to monitor el.	able is being
vi.	The proponent shall comply with stipulations in the Raniganj Master Plan.	Being Comp with.	lied: It is be	ing complied
vii.	The proponent shall make efforts for revival of the existing railway line or a new railway line of coal transportation within a period of three years, during which the coal can be transported by mechanically covered trucks. The proponent shall	under cluster centralized ra Bonjemehari c	•	rted through present at
	also explore the possibility of constructinga railway siding at the active railway line.	transportation railway siding covered trucks		m mines to ugh tarpaulin
viii.	The mine closure plan shall be synchronized with EC conditions.	is in synchroniz	ied: The mine zation with EC	conditions.
ix.	Water bodies/Nalla shallnot be disturbed.	Complied: No disturbed durin	b water bodies	/ Nallahs are

х.	Coal transportation: Underground mine: -Coal tubs at the faces shall be hauled by series of rope haulages to surface. Opencast mine: -Coal shall be loaded by shovels at the face and transported to the surface coal depot by colliery dumpers, Surface to Siding Road transportation by 15 tonne dumpers and siding to loading by pay loaders are used for loading of coal onto wagons.	Complied: There is no UG mine in the Cluster. However, for OC mines coal transportation is done as mentioned in the specific condition.
xi.	The production shall be within the same Mining Lease area.	Being Complied: The mining activities are carried out as per the approved mining plan within the Mining Lease area as mentioned in the approved EC letter.
xii.	The OB shall be completely re-handled at the end of the mining.	Being complied : Progressive mining is being carried out as per the approved mining plan and external OB dump will be completely re-handled as per the approved MCP after mining.
xiii.	Final mine void depth not be more than 20 m. The void area will be converted into water body. The rest of the area will be backfilled upto theground level and covered with about a meter thick top soil and put to use.	per the approved Mine Closure Plan
xiv.	Coal Extraction shall also be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring & coal extraction should be carried out below habitation, H.T. Lines & beneath road, water bodies.	No UG mine is operational in this Cluster. Dabor OC, Bonjemehari OC & Sangramgarh OC are opencast patches. Hence, this condition is not applicable.
XV.	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement with the landowners.	No UG mine is operational in this Cluster. Dabor OC, Bonjemehari OC & Sangramgarh OC are opencast patches. Hence, this condition is not applicable.
xvi.	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Complied: Garland drains have been designed to evacuate maximum single day rainfall as recorded for the area. Sump of sufficient capacity has been provided.
xvii.	water sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points, etc. Major approach roads shall be black topped and properly maintained.	Complied: Fixed type rotating water sprinklers (28 nos.) are in operation at Centralized railway siding at Bonjemehari and water tankers for sprinkling are also provided to check fugitive emissions on haul roads, transfer points, loading-unloading operations, etc

xviii.	Mining shall be carried out as per statuette at a safe distance from the river/nallah flowing adjacent to the lease boundary.	Being Complied: Mining is done as per the approved mining plan and as per the DGMS guidelines keeping safe distance from the river/nallah flowing adjacent to the lease boundary.	
xix.	The land after mining shall be brought back for agriculture purpose.	Being Complied: The land excavated after mining are being backfilled progressively, and are being suitably reclaimed as per provisions of approved MineClosure Plan (MCP).	
XX.	Mine water should be treated for discharge in to the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken		
xxi.	High root density trees shall be selected and planted over areas likely to be affected by subsidence.	No UG mine is operational in this Cluster. Dabor OC, Bonjemehari OC & Sangramgarh OC are opencast patches. Hence, this condition is not applicable.	
xxii.	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per annual inflation.		
xxiii.	The mining in the existing mines should be phased out after expiry of the current mining lease and after reclamation of mined over area. The operating mines may be analyzed and monitored for compliance of conditions, bearing with movement of wildlife and until such time they are closed/phased out.	Being complied : Progressive mining is being carried out as per the approved mining plan and reclamation of mined out areas are being done as per the approved MCP.	
xxiv.	Everybody in the core should be provided with mask for protection against fugitive dust emissions.	have been provided to the personnel in the mining areas.	
XXV.	The supervisory staff should be held personally responsible for ensuring compulsory regarding	Being Complied : The supervisory staff ensures compulsory wearing of dust mask in the area.	

	wearing of dust mask in the core area.	
xxvi.	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coalmine area.	
xxvii.	The mining area should be surrounded by green belt having thick closed canopy of the tree cover.	Complied : Tree cover is present in the surroundings of the mining area and measures are being taken to increase the tree cover with thick closed canopy as per the annual action plantation program.
xxviii.	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river frontside and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation.	There is no nearby river is present within the leasehold area.
xxix.	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and theproject.	Being Complied: No nearby river is present. Plantation on stabilized backfilled areas and external OB dumps is being carried out minimizing the risk of its overflow. Total plantation in an area of 15 ha is present on external stabilized OB dump.
XXX.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Being Complied: Catch drains within the cluster are desilted as a pre- monsoon activity. Silt ponds are constructed. Surface sumps are present where mine water is allowed to settle before being discharged.
xxxi.	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.	Being Complied: Garland drains are present alongside of active OB dumps to check the run-off. Toe wall will be constructed after complete stabilization of OB dump.
xxxii.	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	There is no CHP in the cluster.

xxxiii.	Acid Water Treatment Plant, volume of water to be treated and disposal ofbrine should be provided.	Being Complied: Monitoring of mine water is being done regularly by CMPDIL and found to be well within prescribed limits of MoEF Schedule VI.
xxxiv.	Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.	Being Complied: Mine water discharge regularly monitored for TDS and found to be well within the prescribed limit.
XXXV.	Drills shall be wet operated.	Being Complied: Drills are attached with water sprinkling arrangement for wet operation.
xxxvi.	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads.	Complied :Repairing of transportation roads is being done as and when required. Plantation is present all along the major approach roads.
xxxvii.	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Being Complied: Blasting is done in controlled manner with proper delay detonators. The siren alert system is also practiced for safety purposes. Control of ground vibration and to arrest the fly rocks and boulders is ensured by controlled blasting. Vibration study is conducted by CMPDI as per requirement from timeto time.
xxxviii	A progressive afforestation plan shall be implemented covering an area of 255.62 ha at the end of mining, which includes reclaimed external OB dump area (15.52 ha), internal OB dump area (270.93 ha), and in township located outside the lease by planting native species in consultation with local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roadsto the mine.	Being Complied: Plantation is a regular process over stabilized OB dumps. 10 Ha plantation is done in FY 2018-19 by West Bengal Wasteland Development Corporation Limited. 5.0 Ha plantation completed in FY 20-21. Additional 5.0 ha is done in FY 21-22.
xxxix.	An estimated total 49.53 Mm3 of OB will be generated during the entire life of the mine. There will be one externalOB dump with quantity of 3.5 Mm3 in covering area 15.52 Ha. 46.03Mm3 of will be three internal OB dump covering an area of416 Ha. The maximum height of external Ob dump for hard OB will not exceed 90 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management	It is being complied as per approved MCP.

	of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MoEF & CC and its Regional Office on yearly basis.	
xl.	The proponent should prepare restoration and reclamation plan for the degraded area. The landbe used in a productive and sustainable manner.	It is being complied as per approved MCP.
xli.	Compensatory Ecological& Restoration of waste land, other degraded landand OB dumps in lieu of breaking open the land becarried out.	It is being complied as per approved MCP.
xlii.	The mining should be phased out in sustainablemanner. No extra over burden dumps are permitted.	It is being complied as per approved MCP.
xliii.	No groundwater shall beused for mining operations.	Complied : No ground water is being used for mining operations.
xliv.	Of the total quarry area 257.61 ha the backfilled quarry area of 35.51 shall be reclaimed with plantation and a void of 65 ha at a depth of 20 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation/afforestation by planting native species in consultation with localDFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	It is being complied as per approved MCP.
xlvi.	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.	

xlv.	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing well sand 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 in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.	Being Complied : Regular monitoring of ground water quality and ground water level is being done by CMPDIL, Asansol.
xlvii.	If subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	NA as there is no UG mine under this cluster
xlviii.	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Complied: Rainwater harvesting has been Constructed at Salanpur area, under this cluster. Also during summer season, drinking water is supplied to nearby villages in the morning and evening.
xlix.	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Complied: In old collieries septic tank followed by soak pits is present. In case of new colonies in the future integrated STP will be constructed. No CHP is present in the cluster. Oil & grease trap is provided for HEMM washing platform of workshop.
1.	Besides carrying out regular periodic health check-up of their workers,10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up from occupational diseases and hearing impairment, if any, through an specialized agency /institution within the District/State and the results reported to this Ministry and to DGMS.	Being Complied : Periodic Medical Examination (PME) tests which includes PFT were conducted by Area Medical Officer and Initial Medical Examination (IME) is being done for new recruits. Periodic Medical Examination (PME) of each and every worker is being done periodically. A Work Order has been issued to NIOH, Ahmedabad for Occupational Health Survey among core mining workers with special reference to respiratory and hearing impairment vide letter no. ECL/ENV/21/40 dated 22.02.2021.
li.	Land outers shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.	It is being complied as per R&R Policy of CIL/National R&R Policy.

lii.	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 theproject until end of mine life shall be prepared oncein 3 years (for any one particular season which is consistent in the time series), and the report submitted to MoEF&CC and its concerned Regional office.	Being Complied : Changes in the land use pattern is tracked by carrying out satellite imagery at every three years'interval. This is being done by CMPDI, Ranchi.
liii.	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environment Clearance.	Complied: Mine closure plan as per the guidelines of Ministry of Coal has been prepared and approved by the ECL board in the 264 th Board meeting on 24 th Sept.2013.
liv.		out by Welfare and CSR department. Nodal officer of CSR is present at Salanpur area under
Iv.	Corporate EnvironmentResponsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	It is being complied with. a) Environment Policy of CIL: Coal India Limited (CIL) is committed to protect the environment through prevention, mitigation of pollution, proper disposal and recycling of wastes, conservation of biodiversity and bringing awareness among all its stakeholders for continual improvement in environmental performances following best practices.
	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.	b) The environment policy ensures compliance of EC conditions and other statuary conditions issuedby regulatory agencies.
	c)The hierarchical system or Administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shallbe furnished.	c)The Environment Department is headed by GM(Env) at HQ level and Environment Management Cell(EMC) has been established at each area of ECL which is responsible for looking after the

		compliances of the EC conditions of all the Clusters present in that area. The head of this EMC reports directly to the GM of the area.
compa ofrepo enviro ofthe	have proper checks and balances any shall have a well laid down sy orting of non- compliance/violation nmental norms to the Board of Dire company and/or shareholders nolders at large.	stem been established at area level for periodic s pf audit of the Clusters for compliance of the

В.	General Conditions	Compliance status
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	Shovel dumper combination is under use for the mining in OC mines. No change in mining technology will be done without prior approval of the MoEF&CC.
ii.	No change in the calendarplan of production for quantum of mineral coal shall be made.	Production is being done according to the prior approved calendar plan and under the limit of ECas given in the Specific Condition no.(i).
iii.	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM_{10} , $PM_{2.5}$, SO_2 and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried outat least once in six months.	Regular Environmental monitoring is being carried out on quarterly basis by CMPDI, Asansol. Monitoring stations have been located in consultation with officials of SPCB in accordance with the direction of the wind. Location of station changes in summer and winter season according to the direction of wind and monitoring is done as per the condition meeting the norms at upstream and downwind direction.
iv.	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as Hg, As,Ni,Cd,Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	Regular Environmental monitoring is being carried out on quarterly basis by CMPDI, Asansol. Same as per General Condition no.(iii)
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.	always being equipped with particular ear plugs.
vi	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Being Complied: Mine discharge water is collected in a lagoon present which after settling overflows in the low lying areas under the jurisdiction of ECL. Most of the mine water is used for industrial purposes like HEMM washing, Fixed water sprinklers, Haul road sprinkling, etc. we are aiming to attain zero water discharge by using all the water for internal purposes and not discharging outside. Samples from the mines is collected and tested in laboratory at CMPDI,RI-I, Asansol on quarterly basis. Mine water quality conform to the standards

		prescribed under GSR 422 (E) dated 19 th May 1993and 31 st December 1993.
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.	for PUC certificates. Vehicles used for transporting coal are covered with
Viii.	Monitoring of environmental quality parameters	Being Complied: Environmental Laboratory with latest equipment has been established at CMPDI, RI – I, Asansol. This lab is equipped with Atomic Absorption Spectrophotometer, weather monitoring system, BOD incubator, Photometer and other necessary equipment's. Quarterly monitoring report of Air, Water, and Noise& Groundwater level is prepared at above laboratory and sent to West Bengal pollution control Board with Environmental Statement (Form-V) & by Six monthly compliance reports to the MoEFCC regional office Bhubaneswar.
ix.	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training information on safety andhealth aspects.	Being Complied : Training and awareness programs are carried out for the personnel working in dusty areas. All personnel working in such areas are provided dust mask to protect themselves. PME tests are also carried out for checking any occupational diseases.
х.	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.	
xi.	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.	Complied : A separate Environment Management Cell with qualified personnel has been established at Salanpur area which looks after all the clusters under the area. The head of this cell reports to theGeneral manager, Salanpur area.
xii.	The funds embarked for environmental protection measures shall be kept in separate account and shallnot be diverted for other purpose. Year- wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Being Complied :Funds for environmental protection as kept in budget each year is not diverted for other purposes.

xiii.	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in 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 & Climate Change athttp://envfor.nic.in	Complied.
xiv.	A copy of the environment 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.	EC letter displayed on company's website: http://secureloginecl.co.in/envdept/
XV.	A copy of the environment clearance letter 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 officefor 30 days	
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 updatedat 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 criticalpollutant such as PM ₁₀ ,PM _{2.5} ,SO ₂ and NO ₂ (ambient) and critical sectoral parameters shallalso be displayed t the entrance of the project premises and mine office and in corporate office and on company's website.	http://secureloginecl.co.in/envdept/ Compliance letter uploaded on company's website:http://secureloginecl.co.in/envdept/
xvii.	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Offices of CPCB and SPCB.	It is being complied with.

xviii.	The Regional Office of this Ministry located in the Region 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.	Office by furnishing the requisite data/
xix.	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 MoEF&CC by e-mail.	It is being complied with.