

ईस्टर्न कोलफील्ड्स लिमिटेड राजमहल खनि समूह

महाप्रबंधक (प्रभारी) का कार्यालय

धनकुंडा, पोस्ट- बड़ा सिमरा, जिला- गोड्डा, झारखण्ड - 814165

पत्रांक- ईसीएल/राजमहल/मप्र(प्र.)/पर्यावरण/ ४६४(८)

दिनांक - 24.11.2022

सेवा में,

संयुक्त निदेशक / The Joint Director(s) ,

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest & Climate Change, Integrated Regional Office 2nd Floor, Headquarter- Jharkhand State Housing Board, Harmu Chowk, Ranchi, Jharkhand -834002

विषय - राजमहल खुली खदान परियोजना विस्तरित (23.8 MTY) से संबंधित छमाही अनुपालन प्रतिवेदन (अवधि - अप्रैल 2022 से सितम्बर 2022)

महोदय,

Please find enclosed herewith the following statutory reports in prescribed format one in hard copy and one in soft copy (preceding periods: April 2022 to September 2022) in respect of Rajmahal Open Cast Project Expansion (23.8 MTY).

संलग्नक - यथोपरि।

भवदीय,

महाप्रबंधक(खनन)/क्षेत्रीय प्रबंधक (पर्या.)

राजमहत् क्षेत्र, ईसीएल

प्रतिलिपि -

- सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण बोर्ड, राँची आवश्यक दस्तावेजों के साथ सादर सूचनार्थ ।
- 2. महाप्रबंधक (पर्यावरण), ईसीएल, बराचक हाउस, आसनसोल आवश्यक दस्तावेजों के साथ सादर सूचनार्थ ।
- महाप्रबंधक (प्रभारी), राजमहल खिन सम्ह, ईसीएल
- 4. महाप्रबंधक (परिचालन), राजमहल खुली खदान, ईसीएल

Six Monthly Compliance report (Half yearly - End Sept. 2022) of Environment Clearance from Ministry of Environment, Forest & Climate Change, New Delhi in respect of Rajmahal Open Cast Project (23.80 MTPA), E.C.L.

	Specific Conditions			
S.No.	Condition	Compliance		
i.	The recommendation is subject to approval of revalidation of previous EC dated 11 th May, 2005.	Mol F&CC has accorded approval for Revalidation of Environment Clearance dated 11 th May 2005 vide letter no.J 11015/30/2004 IA. II(M) dt. 22 nd January 2020.		
ii.	EAC desired that the M.o.C may direct CIL subsidiaries to comply the EC/I C/CTO conditions strictly within certain time bound manner so that the mining operations will be environmentally sustainable/viable etc.	Conditions of EC/FC/CTO are being strictly complied in a time bound manner.		
III.	The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Boards for the proposed peak capacity of 23.80 MTPA prior to commencement of the increased production.	Consent to Establish and Consent to Operate for peak production capacity of 23.80 MTY has been obtained from JSPCB. (Annexure-I)		
iv.	Transportation of coal from Coal Handling Plant shall be through covered trucks.	It is being done with closed conveyor belt and SILO system.		
v.	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	Crusher has been provided with automatic sensor- based mist type sprinklers. In-pit crusher cum conveyor belt system has mist type sprinklers. (Photograph-I)		
vi.	Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at loading and unloading points, etc.	Sufficient numbers of high efficiency dust suppression system have been provided at input hopper, loading and unloading areas including all the transfer points maintained and operated which are as under: 1) Total 14 nos. of Mobile water sprinklers [20 KL(06), 28 KL(06) & 34 KL(02) capacity] have been provided for dust suppression at haul roads. 2) Automatic sensor based fine nozzle mist type water sprinklers has been installed at Crushing Hopper. 3) 02 nos. of highly efficient mist gun have been installed at Crushing Point. 4) Fixed type of water sprinklers has been installed near CHP and en route to RJML railway siding. 5.) DSS systems for chutes at crushing point. 6.) Sprinkler for SM hopper and crusher hopper at crushing point. 7.) Service water line for dust cleaning near crushing point.		
vii.	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	A person working in dusty areas is being given adequate training and information on safety and health aspects. They use protective respiratory devices judiciously. PME is being done to each worker at an interval of five years under occupational health surveillance.		

S.No.	Specific Con	
3.NO.	Condition	Compliance
		program as per norms at Central Hospital, Kalla ECL If it is observed any contractions due t exposure to coal dust will be taken correctiv measure, as per need.
•		Periodical Medical Examinations (PME) of worker is being carried out at 5 years interval in which audiometric tests are carried out. Last 5 Year details are as under:- 2018 - 447 2019 - 446 2020 - 443
		2021 – 690
viii.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	2022 - 342 (upto sept 2022) People of nearby villages are imparted training or livelihood and skill development which are a under:
		 i) Skill Development Centre with ATDC a Rajmahal Area. (Project Cost: 18.8 Lakhs) ii) Operation and maintenance of OPJCC (ITI Godda) (Photograph-II)
ix.	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.	Thick green belt of adequate width has been developed to mitigate/ check the dust pollution.
x.	Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	The treated mine water is being supplied to nearby villages for their irrigation and domestic use. Also excess mine water after sedimentation is being supplied to the ponds in peripheral villages for domestic and agricultural use of local villagers.
xi.	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 23.8 MTPA.	NOC for Ground Water Abstraction has been obtained which is valid upto 02/03/2024. (Annexure-II)
xii.	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	A person working in dusty areas is being given adequate training and information on safety and health aspects. They use protective respirator devices judiciously. PME is being done for each worker at an interval of five years under occupational health surveillance program as per norms at Central Hospital, Kalla ECL, If it is observed any contractions due to exposure to coal dust will be taken corrective measure, as per need. Periodical Medical Examinations (PME) of worker is being carried out at 5 year intervals in which audiometric tests are carried out. Last 5 Year-wis details are as under:-2018 - 447

	Specific Conditions			
S.No.	Condition	Compliance		
		2020 – 443		
		2021 – 690		
		2022 - 342 (upto sept 2022)		
xiii.	A third—party assessment of EC compliance	It is being followed.		
	shall be undertaken once in every three years by			
	agency like ICFRI /NEERI/IIT or any other expert			
	agency identified by the Ministry.			
xiv.	The activities and fund provisions for CER shall	CER allocation has been dissolved by MoEF&CC vid		
	be made as per the guidelines issued by the	OM dated 30.09.2020, Ref. No. F.NO.22-65/2017-		
	ministry regarding CER on 1 st May, 2018	IA.III. However, Separate fund is earmarked for		
		environment management measures.		
XV.	Compliance of all the non-compliances and	All non-compliances and partially complied		
	partially complied conditions by Regional Office,	conditions as suggested by Regional Office are		
	Ranchi for the project of EC dated 11th May,	being complied.		
	2005.			
xvi.	Project Proponent shall obtain blasting	Blasting permission has been obtained from DGMS		
	permission from DGMS for conducting mining	forconducting mining operations. (Annexure-III)		
	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.			
xvii.	Project proponent to plant 100,000 nos. of	It is here a least to the		
	native trees with broad leaves along the villages	It is being done in a phased manner.		
	and transportation route to prevent the effect			
	of air pollution. After completion of tree			
	plantation, number of trees shall be duly			
	endorsed from District Forest Officer.			
xviii.	The Project Proponent shall comply with all the	Agreed.		
	statutory requirements and judgment of	Agreed.		
	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 2 nd August 2017 in Writ Petition			
	(Civil) No. 1 14 of 2014 in the matter of			
	Common Cause versus Union of India and Ors.			

S.No

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 basis on changes in Ground water level and quality shall be

submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board

NOC for Ground Water Abstraction has been obtained which is valid upto 02/03/2024. (Annexure-II)

S.No.	Specific Conditions		
	Condition	Compliance	
XX.	Proponent shall appoint an Occupational Health		
	Specialist for Regular and Periodical medical		
	examination of the workers engaged in the		
	Project and maintain records accordingly;	details are as under:-	
	Also, Occupational health check—ups for	2018 - 447	
	workers having some ailments like BP, diabetes,	2019 - 446	
	habitual smoking, etc. shall be undertaken once	2020 – 443	
	in six months and necessary	2021 – 690	
	remedial/preventive measures taken	2022 - 342 (upto sept 2022)	
	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 anti-snake-		
	venom including all other paramedical		
	safeguards may be ensured before initiating the		
	mining activities.		
xxi.	Project Proponent shall follow the mitigation	Agreed.	
	measures provided in Office Memorandum No.	7.6.000.	
	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".		
xxii.	The illumination and sound at night at project	It is being followed	
	sites disturb the Villages in respect of both	ite is being followed.	
	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.		
xxiii.	The project proponent shall take all	Full offerts are being made devices	
	properties state and	Full efforts are being made during mining	
	precautionary measures during mining operation for conservation and protection of	operation for conservation and protection of	
	endangered fauna, if any, spotted in the study	endangered fauna spotted in the study area in	
	area. Action plan for conservation of flora and	consultation with the forest officials.	
		Action plan for conservation of Endangered Fauna	
	fauna shall be prepared and implemented in consultation with the State Forest and Wildlife	has been prepared and it is being implemented in	
		consultation with concerned Divisional Forest	
	Department. A copy of action plan shall be	Officer, Godda.	
	submitted to the Ministry of Environment,		
	Forest and Climate Change and its Regional		
	Office.		
and t	Loading and unless the second state of		
xiv.	Loading and unloading of coal shall be done	Silo (2 in Nos.) of capacity 4000t each is already	
	with silo loading facility to enhance production	operational. Proposal for additional 10 MTY C.H.P	
	and proposed facility should be installed in 1	which includes rapid loading system and	

	Specific Conditions				
S.No.	Condition	Compliance			
	year.	construction of an additional silo of capacity 4000t is already in progress.			
XXV.	Conditions stipulated during revalidation of EC i.e. letter dated 22 nd January, 2020 is also to be complied.	Conditions stipulated during revalidation of EC i.e. letter dated 22 nd January, 2020 are being complied.			
xxvii.	Project proponent shall submit approved Wildlife Conservation Plan within six months i.e. by 30 th September, 2020. PP shall also ensure that all the steps to be undertaken as committed by the project proponent to conserve and protect wildlife, failure to do so may be considered a case of non-compliance of EC conditions.	Wildlife warden, Govt. of Jharkhand.			

S.No.

S.No.	Standard Conditions			
	Condition	Compliance		
	tutory Compliance:			
i)	The project proponent shall obtain forest Clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non—forest purpose involved in the project.	Approval under the Forest (Conservation) Act, 1980 for diversion of total 107.42 ha of forest land for non-forestry purposes has been obtained vide following MOEF&CC letter No: I) 8-303/89—FC dated 26.10.1993 for 17.64 Ha in Phase-I II) 8-7/98-FC dated 10.12.2002 for 20.03 Ha in Phase-II. III) 8-89/2003-FC dated 27.08.2004 for 69.75 Ha in Phase-III.		
ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable.		
iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule—I species in the study area).	Action plan for conservation of Endangered Fauna has been prepared and it is being implemented in consultation with concerned Divisional Forest Officer, Godda. it has been approved by PCCF/Chief Wildlife warden, Govt. of Jharkhand.		
iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Consent to Establish and Consent to Operate for peak production capacity of 23.80 MTY has been obtained from JSPCB. (Annexure – I)		
v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	NOC for Ground Water Abstraction has been obtained which is valid upto 02/03/2024. (Annexure-II)		

	Standard Conditions				
S.No.	Condition	Compliance			
vi)	Solid/hazardous waste generated in the mines	It is being followed as per the Hazardous waste			
	needs to addressed in accordance to the Solid	management rule.			
	Waste Management Rules, 2016/Hazardous &				
	Other Waste Management Rules, 2016.				
	quality monitoring and preservation:				
i)	Continuous ambient air quality monitoring	As per the guidelines of JSPCB, Continuous PM1			
	station as prescribed in the statue be	analyzer has been installed and connected with			
	established in the core zone as well as in the	JSPCB Server.			
	buffer zone for monitoring of pollutants, namely	Installation of CAAQMS is in progress.			
	PM_{10} , $PM_{2.5}$, SO_2 and NO_X . 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.				
ii)	The Ambient Air Quality monitoring in the core	Fortnightly AAQ Monitoring is done by CMPD			
	zone shall be carried out to ensure the Coal	(Region - I), Asansol as per the Coal Industry			
	Industry Standards notified vide GSR 742 (E)	Standards notified vide GSR 742 (E) dated 25 th			
	dated 25 th September, 2000 and as amended	September, 2000 at 4 stations, in core and buffer			
	from time to time by the Central Pollution	zone. The monitory location of the stations had			
	Control Board. Data on ambient air quality and	been decided based on the meteorological data			
	heavy metals such as Hg, As, Ni, Cd, Cr and other	topographical features and environmentally and			
	monitoring data shall be regularly reported to	ecologically sensitive targets, in consultation with			
	the Ministry/Regional Office and to the	the representative of JSPCB, Ranchi. The stations			
	CPCB/SPCB.	are as under:-			
		 Mine Dispatch Building. 			
		2. CISF Camp.			
		Urjanagar Hospital.			
		4. ECL Rest House at Pirpainti Market			
		Monitoring is carried out on fortnightly basis and			
		submitted regularly to the Regional Office of MoEF			
		Bhubaneswar once in six months, and to the JSPCB			
		Ranchi once in every three months and also once in			
		a year with the Environmental Statement. Photo			
		copy of Environmental monitoring report for			
		July'22 (1st fortnight) with AAQ data in microgram			
		per cubic meter for above quarter ending is as			
		follows:-			
		Pollutants Min. Max.			
		PM _{2.5} 11.9 21.0			
		PM ₁₀ 59.7 118.6			
		SO ₂ BDL BDL			
		NO _x 12.8 19.4			
		Attached as Annexure-IV.			

	Standard Co	onditions
S.No.	Condition	Compliance
iii)	Condition Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. 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 PM ₁₀ / 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 norms prescribed by the Central/State Pollution Control Board.	Transportation of coal is carried out by closed conveyor belt and SILO system with mist sprinkling arrangements. Also Following dust suppression techniques are also in operation: 1) Automatic sensor based fine nozzle mist type water sprinklers have been installed at Crushing Hopper. 2) 02 nos. of highly efficient mist gun have been installed at Crushing Point. 3) Fixed type of water sprinklers has been installed near CHP. 4.) DSS systems for chutes at crushing point. 5.) Sprinkler for SM hopper and crusher hopper at crushing point. 6.) Service water line for dust cleaning near crushing point. 7.) Belt conveyors are fully covered to avoid air borne dust. 8.) Wet drilling is operational. Also, Ambient Air Quality parameters conform to
iv)	The transportation of coal shall be carried out as	the norms prescribed by the Central/State Pollution Control Board. (Photograph-3)
	per the provisions and route envisaged in the approved Mining Plan or environment monitoring 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.	It is being strictly followed.
v)	Vehicular emissions 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 kept under control and are regularly monitored. Vehicles have obtained PUC certificates from authorized pollution testing centres.

vi) Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.

Following dust suppression techniques are already in operation:

- 1) Automatic sensor based fine nozzle mist type water sprinklers has been installed at Crushing Hopper.
- 2) 02 nos. of highly efficient mist gun have been installed at Crushing Point.
- 3) Fixed type of water sprinklers has been installed near CHP.
- 4.) DSS systems for chutes at crushing point.
- 5.) Sprinkler for SM hopper and crusher hopper at crushing point.
- 6.) Service water line for dust cleaning near crushing point.
- 7.) Belt conveyors are fully covered to avoid air borne dust.
- 8.) Wet drilling is operational.

(Photograph 3)

	Standard Conditions			
S.No.	Condition		Complia	ance
C. Wate	er quality monitoring and preservation:			
i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board.	effluent) paramet Coal Indi	is regularly moni ers notified under ustry Standards vide per, 2000 by CMPDII	vaste water, workshop tored in terms of the the Water Act, 1974 e GSR 742 (E) dated 25 th
ii)	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.II (M) dated27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	company project s J-20012/ issued b Climate	y's website and o site at a suitable loo /1/2006-IA.II (M) da by Ministry of Env Change is also	ularly uploaded on the display board at the cation. The circular No. ated 27 th May, 2009 vironment, Forest and referred in for its
iii)	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, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEF&CC/RO.	compliance. Regular monitoring of ground water level designated wells in vicinity of Rajmahal OC carried out on quarterly basis by CMPDIL, As The report is being submitted regularly as deform the Ground water level for May'22 is given by the St. S.No Name of Site Well water I from ground.		of Rajmahal OCP is s by CMPDIL, Asansol. d regularly as desired. May'22 is given below, Well water level from ground (m) 4.00 2.95
		S.No 1. 2.	RP (Old Workshop RP (Lohandiya Par	PZ-1 / Erection Yard) PZ-2 nchyat Bhawan)
iv)	Monitoring of water quality upstream and downstream of water bodies shall been 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.	Monitor downst	ream of water bodie	uality upstream and es has been carried out ich is NABL accredited

	Standard Conditions			
S.No.	Condition	Compliance		
v)	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.	for mining operations. Ponds (15 in Nos.) has been constructed within mine lease area and Rain water		
vi)	Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and 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 and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field /habitation/water bodies.	and runoff. Garland drains are provided along the toe of dump for collecting and discharging rain water. Yearly cleaning of the drains is carried out under monsoon preparation. Storm water flowing through garland drains is collected in a pond which is de-silted as and when required. Second stage settling pond has also been		
vii)	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).	Several Ponds has been constructed within mine lease area and 7 numbers of rainwater harvesting structures has been constructed for conservation and augmentation of ground water resources. Also, Rajmahal OCP do meet the water requirements of nearby needy villages regularly through (i) Water tankers, (ii) Supplying water by borehole pumping and (iii) Channelizing the dewatered supply to village ponds. (iv) Lalmatia Filtration plant (by ECL) of capacity 10,000 GPH is solely to fulfill the drinking water requirements of nearby villages. (Photograph-5) Financial help is also provided on opening of new wells, their maintenance and installation of hand pumps.		
viii)	properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and	Industrial waste water (workshop and waste water from the mine) is being properly collected and analyzed, regularly and found conforming with the MoEF Schedule - VI Standards for discharge of mine effluents. Analysis results of CHP discharge for July' 2022 are within permissible limit. Quality		

-	Standard Co	onditions
S.No.	Condition	Compliance
	Rules made there under, and as amended from	report for 4 parameters are as under:-
	time to time. Adequate ETP /STP needs to be	
	provided.	Location : Discharge from CHP
		pH 7.69
		TSS (mg/l) 12.56
		TDS (mg/l) 283
		Oil & Grease (mg/l) BDL
		COD (mg/l) 16
ix)	The	(Annexure-IV)
ix)	The water pumped out from the mine, after	The water pumped out from the mine, is passed
	siltation shall be utilized for industrial purpose	through multi-stage settling ponds and
	viz. watering the mine area, roads, green belt	sedimentation tank before it is utilized for
	development etc. The drains shall be regularly	industrial purpose viz. watering the mine area,
	de-silted particularly after monsoon and	roads, green belt development etc. Also, the drains
	maintained properly.	are regularly de-silted particularly after monsoon
x)	The surface designed to the second	and maintained properly. (Photographs-6)
^)	The surface drainage plan including surface	Hydro-geological report which incorporates
	water conservation plan for the area of influence affected by the said mining	drainage plan, has been prepared by CMPDI and is
	,	being implemented. It is as per EIA/EMP report.
	operations, considering the presence of river/ rivulet/ pond/ lakes 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	
	approved Mining Plan/EIA/EMP report and with	
	due approval of the concerned State/Gol	
	Authority. The 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 DGMS or any other authority as prescribed by	
	the law.	
xi)	The project proponent shall take all	There is no riverine/ riparian ecosystem near the
,	precautionary measures to ensure	coal mine up to a distance of 5 km.
	riverine/riparian ecosystem in and around the	
	coal mine up to a distance of 5 km. A riverine/	
	riparian ecosystem conservation and	
	management plan should be prepared and	
	implemented in consultation with the irrigation	
	/ water resource department in the state	
	government.	
Nois	e and Vibration monitoring and prevention:	
i)	Adequate measures shall be taken for control of	To control noise levels within prescribed standards
''	noise levels as per Noise Pollution Rules, 2016 in	the following steps are being taken :-
	the work environment. Workers engaged in	1. Noise monitoring is being carried out
	blasting and drilling operations, operation of	regularly and found to be within
	HEMM, etc. shall be provided with personal	permissible levels. Noise level report (Day
	protective equipment (PPE) like ear plugs/muffs	time) for July'22 are appended below &
	in conformity with the prescribed norms and	photo copy is being attached.
	guidelines in this regard. Adequate awareness	Minimum - 51.38 dB(A)
1	programme for users to be conducted. Progress	Maximum – 67.95 dB(A)

programme for users to be conducted. Progress

in usage of such accessories to be monitored.

All HEMM and light vehicles are provided

S.No.	Standard Conditions			
3.NO.	Condition	Compliance		
		with silencers. Workers engaged in blasting and drilling operations, operations of HEMM, etc., exposed to high sound levels are provided with ear muffs and their working hours are reduced to prevent long exposure time. PPEs distributed is attached as Annexure - V		
ii)	Controlled blasting techniques shall be practiced in order to mitigate ground Vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.			
iii)	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.	Noise level survey is being carried out in prominent		
E. Min	ing Plan:			
i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there—under as applicable.	Mining is being carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there—under as applicable.		
ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Mining is being carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).		
iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	Approval under the Forest (Conservation) Act, 1980 for diversion of total 107.42 ha of forest land for non-forestry purposes has been obtained vide following MOEF&CC letter No: I) 8-303/89—FC dated 26.10.1993 for 17.64 Ha in Phase-I II) 8-7/98-FC dated 10.12.2002 for 20.03 Ha in Phase-II. III) 8-89/2003-FC dated 27.08.2004 for 69.75 Ha in Phase-III.		
iv)	Efforts should be made to reduce energy and	Agreed.		
	fuel consumption by conservation, efficiency improvements and use of renewable energy.	·		
		Satellite monitoring of antire lease held area /ears		
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 or as notified by Ministry of Environment, Forest and Climate Change(MOEF&CC) from time to time shall be submitted to MOEF&CC/Regional Office (R0).	Satellite monitoring of entire lease hold area/core zone is done by CMPDIL. The report is being submitted as per the instruction. (Annexure-VII)		
	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in	The final mine void depth will be as per the approved Mine Closure Plan.		

S.No.	Standard Conditions		
3.NO.	Condition	Compliance	
	involved in core zone, in consultation with the		
	State government to provide alternate areas for	r	
	livestock grazing, if any. In this context, the	2	
	project proponent shall implement the	2	
	directions of Hon'ble Supreme Court with regard		
	to acquiring grazing land.		
G. Gre	een Belt:		
i)	The project proponent shall take all		
	precautionary measures during mining		
	operation for conservation and protection of	Forest Officer, Godda and it has been approved b	
	endangered/endemic flora/fauna, if any,	PCCF/Chief Wildlife warden, Govt. of Jharkhand.	
	spotted/reported in the study area. The Action	Full efforts are being made during mining	
	plan in this regard, if any, shall be prepared and	operation for conservation and protection o	
	implemented in consultation with the State	endangered/endemic flora/fauna spotted in the	
	Forest and Wildlife Department.	study area in consultation with the forest officials.	
ii)	Greenbelt consisting of 3-tier plantation of	Greenbelt consisting of 3-tier plantation has been	
,	width not less than 7.5 m shall be developed all	developed all along the mine lease area. The green	
	along the mine lease area as soon as possible.	belt comprising a mix of native species (endemic	
	The green belt comprising a mix of native	species should be given priority) has beer	
	species (endemic species should be given	developed all along the major approach/ coa	
	priority) shall be developed all along the major	transportation roads.	
	approach/ coal transportation roads.		
H. Pub	lic Hearing and Human related issues:		
i)	Adequate illumination shall be ensured in all	Adequate illumination has been ensured at al	
	mine locations (as per DGMS standards) and	mine location (as per DGMS standards) and	
	monitored weekly. The report on the same shall	monitored monthly. (Annexure-VIII)	
	be submitted to this ministry & it's RO on six—		
	monthly basis.		
ii)	The project proponent shall undertake	Periodical Medical Examinations (PME) of workers	
	occupational health survey for initial and	is being carried out at 5 year intervals in which	
	periodical medical examination of the personnel	audiometric tests are carried out. Last 5 Year-wise	
	engaged in the project and maintain records	details are as under:-	
	accordingly as per the provisions of the Mines	2018 - 447	
	Rules, 1955 and DGMS circulars. Besides regular	2019 - 446	
	periodic health check-up, 20% of the personnel	2020 – 443	
	identified from workforce engaged in active	2021 – 690	
	mining operations shall be subjected to health	2022 - 342 (upto sept 2022)	
	check-up for occupational diseases and hearing		
	impairment, if any, as amended time to time.		
iii)	Personnel (including outsourced employees)	Person working in dusty areas are given adequate	
	working in core zone shall wear protective	training and information on safety and health	
	respiratory devices and shall also be provided	aspects. They use protective devices like safety	
	with adequate training and information on	helmets, safety shoes, pollution masks, ear plugs	
iv)		and ear muffs.	
10)		Regular action is taken on issues raised during	
		public hearing.	
	ensured. The project proponent shall undertake	Land oustees are paid land compensation as per	
		norms. The last five financial years payment details	
	SUDDIFFICED WITH DUDGETARY PROVISIONS during the	are as under:-	
	1.0	2017-18 - Rs. 357.63 Lakhs	

	Standard Co	and the same
S.No.	Standard Co Condition	
	R&R policy of the company/ State Government/Central Government, as applicable.	11
v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/57/2014—IA.II (M) dated 29 th 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."	Agreed.
	orate Environment Responsibility:	
i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.111 dated 1St May 2018, as applicable, regarding Corporate Environment Responsibility.	It is being followed as per the standard norms.
ii)	The company shall have a well laid down environmental policy duly approved by the 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/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.	The company has a well laid down environmental policy approved by board of directors.
iii)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Company Level: There is a Separate Environmental Management Cell with suitable qualified personnel under the control of General Manager (Environment) of ECL, who reports directly to the Head of the organization. Project level: A separate environmental management cell with suitable qualified personnel has been formed at Rajmahal Area.
iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office	Action plan is prepared by the environment management cell on the basis of non-conformities with the conditions of E.C found during inter-area inspection conducted within ECL. The capital budget for environmental protection measures had been allocated as per Project Report and is kept as a separate fund. The revenue budget for OB Dump plantation, green belt development, is finalized annually as per the requirement. Total Rupees 21.24 Crores had been

S.No.	Standard Conditions		
	Condition	Compliance	
	along with the Six Monthly Compliance Report.	allocated till the end of mine life for Environmenta	
ν)		Management.	
v)	Self-environmental audit shall be conducted	It is being followed.	
	difficulty. Every three years third	to being followed.	
	crivil officential audit shall be carried out		
	ellaneous:		
i.	The project proponent shall make public the	The environmental clearance granted for the	
	environmental clearance granted for their	project has been made public by advertising it in	
	project along with the environmental conditions	two newspapers of the district and the same ha	
	and safeguards at their cost by prominently	been displayed on the website of the company.	
	advertising it at least in two local newspapers of	been displayed on the website of the company.	
	the District or State Of which one shall be in the		
	vernacular language within seven days and in		
	addition this shall also be displayed in the		
	project proponent's website permanently.		
ii.		The against the against all all against how	
	The copies of the environmental clearance shall	The copies of the environmental clearance have	
	be submitted by the project proponents to the	been submitted by the project proponents to the	
	Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the	Heads of local bodies, Panchayats and Municipa Bodies in addition to relevant offices of the	
	Government who in turn has to display the	government.	
:::	same for 30 days from the date of receipt.	It is height followed	
iii.	The project proponent shall upload the status of	It is being followed.	
	compliance of the stipulated environment		
	clearance conditions, including results of monitored data on their website and update the		
	same on half—yearly basis.	It is had a fallowed	
iv.	The project proponent shall monitor the criteria	It is being followed.	
	pollutants level namely; PM ₁₀ , SO ₂ ,NO _x (ambient levels) or critical sectoral parameters, indicated		
	for the projects and display the same at a		
	convenient location for disclosure to the public		
	and put on the website of the company.		
.,		It is being followed strictly	
V.	The project proponent shall submit six-monthly	It is being followed strictly.	
	reports on the status of the compliance of the		
	stipulated environmental conditions on the website of the ministry of Environment, Forest		
	and Climate Change at environment clearance portal.		
vi.	The project proponent shall follow the	Agreed.	
VI.	mitigation measures provided in this Ministry's	Agreed.	
	OM 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".		
vii.	The project proponent shall submit the	It is being strictly followed.	
¥11.	environmental statement for each financial year	The second section of the sect	
	in Form-V to the concerned State Pollution		
	Control Board as prescribed under the		

proponent

shall

abide by

all

the Agreed. It is being followed.

S.No.	S No. Standard Conditions				
3.140.	Condition				
	commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.				
ii.	clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate+ any further condition for environmental protection.				
iii.	Any appeal against this Environment Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.				
iv.	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others'.	Agreed.			
V.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	Agreed.			
vi.	This Environment Clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court. As applicable, and other statutory requirements.	Agreed.			

Date: 24.11.2022

General Manager (Operations), Rajmahal Open Cast Project, ECL.

> General Canager (O P) Rajmahal OCP