

## ईस्टर्न कोलफील्ड्स लिमिटेड राजमहल खनि समुह

महाप्रबंधक (प्रभारी) का कार्यालय

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

पत्रांक- ईसीएल/राजमहल/मप्र(प्र.)/यो.नि.वि. व पर्या./ईएमपी(सी)/ 451(८) दिनांक – 09.11.2018

सेवा में,

संयुक्त निदेशक / The Joint Director(s) ,

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

Ministry of Environment, Forest & Climate Change, क्षेत्रीय कार्यालय (प्.मध्य क्षेत्र) / Regional Office (E.C.Z) Bungalow no – A2, Shyamali Colony, Doranda रांची, (झारखण्ड) / Ranchi, (Jharkhand) - 834002

विषय - हुर्रा सी परियोजना (03 MTY) से संबंधित छमाही अनुपालन प्रतिवेदन (अवधि - अप्रैल 2018 से सितंबर 2018)

महोदय,

Please find enclosed herewith EMP Compliance Report on implementation of Environmental Safeguards in prescribed format one in hard copy and one in soft copy (preceding periods: April 2018 to September 2018) in respect of Hura –C Open Cast Project (3 MTPA).

कृपया पावती दें।

संलग्नक - यथोपरि।

भवदीय,

क्षेत्रीय प्रबंधक (या.नि.वि. व पर्या.)

राजमहल क्षेत्र, ईसीएल

days

प्रतिलिपि -

Additional Principal Chief Conservator of Forests (C), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, पूर्वी क्षेत्र, A/3, चंदरशेखरपुर, भुवनेश्वर, ओडिसा- 751023

सदस्य सचिव, झारखण्ड राज्य प्रदूषण नियंत्रण बोर्ड, राँची - आवश्यक दस्तावेजों के साथ सादर सूचनार्थ । महाप्रबंधक (पर्यावरण), ईसीएल, बराचक हाउस, आसनसोल - आवश्यक दस्तावेजों के साथ सादर सूचनार्थ । महाप्रबंधक (प्रभारी), राजमहल क्षेत्र - सादर सूचनार्थ । अभिकर्ता, हुर्रा- सी परियोजना ।

## Six Monthly EMP Compliance Report (Half yearly - End September 2018) of Environmental Clearance from Ministry of Environment and Forests, New Delhi In respect of Hura - C Open Cast Project

## A. Specific Conditions

S.No.	Conditions	Compliance
i	No mining operations shall be undertaken in the forestland until clearance has been obtained under the provisions of FC Act, 1980. The application made for obtaining forestry clearance shall specifically indicate that an area of 186 ha. Forestland is required for OB dumping.	undertaken in the forest land after requisite clearance thereof.
ii	Mining shall be carried out as per statuette from the Streams/Nallahs flowing within the lease and along the diverted Nallah along the lease boundary.	
iii	An embankment of a height difference of 3m from HFL shall be constructed and diverted Nallah and the quarry/working pits. The slope of the embankment shall at least 2:1 towards the ML and shall be stabilized by plantation. A 200 m wide corridor shall be left undisturbed between the working Pits and Nallah.	mine operation.
iv	Top Soil should be stacked with proper slope a and should not be kept active and shall be used for green belt.	Hurra 'C' OCP for reclamation and
V	OB dumps should be stacked at earmarked two external OB dump site(s) within ML area and shall be a maximum height of 60 m only and consist of two benches of 30 m each. The ultimate slope of the dump shall not exceed 28 degree. Monitoring and management of reclaimed dumpsites should continue until the vegetation becomes self sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhubaneswar on yearly basis.	biological reclamation will be followed at Hurra 'C' OCP. The yearly report will be submitted to Regional office of MOEF, Bhubaneswar and Ranchi.
vi	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sedimentation flows from soil, OB and minera dumps. The water so collected should be utilised for Watering the mine area, roads, green bel development etc. The drain should be regularly de silted and maintained properly. Catch drains of appropriate size will be constructed, maintained and desilted time to time to ensure its efficacy	be constructed and maintained properly and hence collected water will be utilized appropriately. Garland drains of appropriate size will be constructed and maintained to arrest the surface run off, which is collected into the settling pond before final

S.No.	Conditions	Compliance
	Provision of siltation pond will be maintained suggested.	as
vii	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfadata.	ck   will be constructed at the toe of OB
viii	High efficiency bag filters/water sprinkling syste should be provided to check fugitive emissio from conveyor system, haulage roads, transfipoints, etc. Dry fogging shall be provided at t CHP for crushing/loading operations for diccontrol.	ns mine operation. fer he
ix	The road from mine to CHP shall be metal topped Green belt shall be developed on both sides of troads.	
X	Drills should be wet operated only.	Wet operated drills will be maintained during mine operation for dust control.
xi	Controlled blasting should be practiced with use delay detonators. The mitigative measures control of ground vibrations and to arrest the rocks and boulders should be implemented.	for suggested will be followed.
xii	The total area that shall be brought undafforestation at the time of mine closure shall a be less than 729.538 ha which includes extern OB dump (348.088 ha) and backfilled area (2 ha), along ML boundary, safety zone (5.043 ha) and in disturbed area (92.667 ha), along roads (1. ha) and infrastructure (0.87 ha) and in townshoutside the lease by planting native species consultation with the local DFO/Agriculta Department. The density of the trees should around 2500 plants per ha.	implemented as suggested.  implemented as suggested.  implemented as suggested.  implemented as suggested.
xiii	A progressive implemented by reclamation of quarry area of 2 be backfilled concurrently with mining operation and afforestated by plant native plant species in consultation with the loud DFO/Agriculture Department. The density of trees should be around 2500 plant per ha. The balance 84.09 ha of de-coaled area/void is be converted into a water reservoir which shall gently sloped. The upper benches of the reservoir shall be terraced and stabilized with plantation.	be implemented as suggested.  ing ocal the The sing be
xiv	A plan for conservation of endangered flora a fauna shall be prepared and implemented	

S.No	),	Conditions	C
	Departments of recognized institution. The Plan shall in endangered flora earmarked in the maintained of the	the concerned Forest and wildlift the State Government and actions such as the BSI and ZS clude in-situ conservation of the A separate fund shall be the project cost and record expenditure thereof and reporte EFRO, Bhubaneswar.	submitted to PCCF Ranchi for kind consideration. It would be implemented in consultation with the concerned Forest and wildlife Departments of the State Government and recognized institutions such as the BSI and ZSI.  A separate fund will be earmarked in
			maintained of the expenditure thereof and reported yearly to the Regional Office of MOEF, Bhubaneswar and Ranchi.
XV	obtained for use of		CGWB will be processed at the earliest.
xvi	quality should be network of existing Piezo-meters. The be done four times monsoon (August), winter (January) se Data thus collected Ministry of Environments.	ag of groundwater level and carried out by establishing a gwells and construction of new monitoring for quantity should a year in pre-monsoon (May), Post-monsoon (November) and easons and for quality in May d should be submitted to the control Board quarterly within oring.	level and quality shall be carried out as suggested and the reports will be submitted to the Ministry of Environment and Forests and the
xvii	recnarge measure for resource. The project	put up artificial groundwater or augmentation of groundwater et authorities should meet water by village(s) in case the village dewatering of mine.	The Company and project authorities shall abide by the instructions as stipulated.
xviii	Sewage treatment p colony. ETP should and CHP wastewater	plant shall be installed in the also be provided for workshop	The provisions will be made.
	based on satellite imathe core zone and bu project until end of m in 3 years (for any oconsistent in the transmitted to MoEF Bhubaneswar.	and its Regional office at	Work for preparation of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life once in 3 years (for any one particular season which is consistent in the time series) is in process. The report will be submitted to MOEF and its Regional office at Bhubaneswar.
XX ]	Besides carrying out	regular periodic health check	The provisions of health surveillance

S.No.	Conditions	
	up of their workers, 10% of the works identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.	operation and reports will be submitted to MOEF and DGMS.
	A Socio-economic survey shall be carried out and based on the same an effective R&R package shall restoration of income of project affected persons (PAP). Provision shall also be made in the R&R Plan to take care of the land less labourers.	Socio-Economic Survey has already been carried out of the region. (W.O.NoECL/RJML/AgentHurraC/WO/16-17/243 dt. 26/30.09.2016)
	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forests 5 years in advance of inal mine closure for approval.	The provisions will be made.

## **B.** General Conditions

S.No		Conditions	Come
i	No change in min working should be of the Ministry of e	ing technology and scope of made without prior approval nvironment and Forests.	technology and scope of working without prior approval of the Ministry of environment and Forests.
ii	should be made.	e calendar plan including n of mineral coal and waste	plan including excavation, quantum of mineral coal and waste during mine operation.
iii	in the buffer zone for monitoring. Location decided based on topographical feature	quality monitoring stations d in the core zone as well as or SPM, RPM, SO <sub>2</sub> and NO <sub>x</sub> n of the stations should be the meteorological data, es and environmentally and we targets in consultation on Control Board.	followed in consultation with the
	Ministry including Bhubaneswar and to	quality (SPM, RPM, SO <sub>2</sub> regularly submitted to the its Regional Office at the State Pollution Control Dlution Control Board once	The reports of Environmental monitoring as desired will be regularly submitted to the Ministry including its Regional Office at Bhubaneswar and Ranchi and to the State Pollution Control Board and Central Pollution Control Board once in six months.
d	lata recorded pro	ons from all the sources regularly monitored and perly. Water spraying roads, wagon loading and	The provisions will be followed and maintained during mine operation.

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S.No	Conditions	Compliance
	dump trucks (loading and unloading) points should be provided and properly maintained.	
vi	Adequate measure should 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. should be provided with ear plugs / muffs.	taken care and workers engaged in blasting and drilling operations.
Vii	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 <sup>th</sup> May 19993 and 31 <sup>st</sup> December 1993 or amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(e) dated 19th May 1993 and 31st December 1993 or as amended
		Oil and grease trap will be installed before discharge of effluents from workshop. They will be properly maintained and if necessary such type of additional arrangements will be provided in future.
viii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used to transporting the mineral should be covered with tarpaulins and optimally loaded.	Vehicular emissions will be kept under control and regularly monitored. Vehicles used for transporting the mineral will be covered with tarpaulins and optimally loaded.
ix	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control board.	The provisions will be made.
х	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	Personnel working in dusty areas are provided with protective Respiratory devices and they have also been provided with adequate training and information on safety and health aspects.
	Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	Periodical Medical Examination will be done for each worker at an interval of five years under occupational health surveillance programme.
xi	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.	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.

S.No	Conditions	Compliance
		Project level: A separate environmental management cell with suitable qualified personnel has been formed at Rajmahal Area.
xi	The funds earmarked for environment protection measures should be kept in separaccount and should not be diverted for a purpose. Year-wise expenditure should reported to this Ministry and its Regional Oat Bhubaneswar.	arate other be
xii	A copy of the environmental clearance shall be marked to concerned Panchayat / NGO, if any, from whom any suggesting representation has been received to processing the proposal.	local
xiii	State Pollution Control Board should display copy of the clearance letter at the Reg Office, District Industry Centre and Collect Office/ Tehsildar's Office for 30 days.	ional followed by State Pollution Control
xiv	The Project authorities should advertise a leat two local newspapers widely circulated ar the project, one of which shall be in vernacular language of the locality conce within seven days of the clearance informing that the project has been accommon environmental clearance and a copy of clearance letter is available with the Pollution Control Board and may also be set the website of the ministry of environment Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	ound information in respect of Environmental clearance in local newspapers as proposed has been done.  In the proposed has been done.  It is the state en at information in respect of Environmental newspapers as proposed has been done.

Thanking you.

Yours faithfully

Agent GM

Hura C Open Cast Project

Rajmahal Group of Mines

Date:

09-11-2018

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