BHARAT COKING COAL LIMITED (A (Subsidiary of Coal India Ltd.) Office of the General Manager Govindpur Area SONARDIH, DHANBAD - 828125

Ref No.: Ref. No.: BCCIJGM/Area III/ 2013/ 476

Date: 26 100113

The Director(s) Ministry of Environment & Forest Govt. Cf India Eastern Region Office. A/3, Chandrasnekharpur, Bhubaneshwar -751023

Sub:- Six monthly Reports on Implementation of environmental measures for the period from March '13 to Sept '13 in respect of Cluster III group of mines EC Order no. i-12015/213/2010-1 $\,$ A.II(M) dated 06.02.2013

Dear Sa

Enclosed please find herewith six monthly Reports on implementation of environmental measures for the period from Finance '13 to says '13 in respect of Cluster III group of raines 50 Order no. 3-11015/213/2010 A Aut (M) dated 06.02.2013 for your kind persual.

your's faithfully,

Addi-General formancer Covincion Area, bCCL.

Copy To -

1. Dr. Schitzi Aulock, Errector, IA monitoring celi-Po yavaran Bruwan CGC Complex, New Defri ~ 110003. GM (Bovto) BCCL, Kayta Bhawan/Dhanbad.

3. Area Manager (Plog.), Govindpur Area. 🕟

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ENVIRONMENTAL CLEARANCE COMPLIANCE OF CLUSTER-III (GRANTED VIDE J-11015/213/2010-IA.II (M) Dated 06.02.2013) (Upto Sept 2013)

Sl.no.		∠ Compliance
	The maximum production from the two opencast sections in the cluster shall not exceed beyond that for which environmental clearance has been granted.	The production from the cluster is within the limit for which environmental clearance has been granted.
li	The measure to identify in the Environmental Plan for Cluster- III groups of mine and the conditions given in this environmental clearance letter shall be dovetailed to the implementation of the Jharia Action Plan.	Master Plan is dovetailed with environmental clearance conditions.
lii ·	The proponent shall prepare time-series maps of the Jharia Coalfields through NRSA to monitor and prevent fire problems in the Jharia Coalfields by Isothermal mapping /imaging and monitoring temperatures of the coal seams (whether they are close to spontaneous ignition temperatures) and based on which, areas with potential fire problems shall be identified. Measures to prevent ingress of air (Ventilation) in such areas, to prevent restart fresh/spread fires in other areas including in mines of cluster II shall be undertaken. Expertise available internationally could also be recognized for control of fire in Jharia Coalfields and for their reclamation and to further minimize time for fire and subsidence control. Isothermal mapping using thermal imaging has been got done by NRSA. Measures would be taken to prevent ingress of air (ventilation) in such areas, which may re-start fresh fires.	Work has been awarded to NRSC (earlier NRSA). A MoU is to be entered with the NRSC for start of the work .For this purpose, duly signed MOU has been sent to NRSC for necessary processing at their end and to start the work immediately .(Copy enclosed as Annexure-A) Action is being taken as specified in the Master Plan and EMP.
	Underground mining should be taken up after completion of reclamation of Opencast mine area.	It is being complied.
	The OB material should be crushed like sand and be used for stowing in underground mines.	The methods of utilization of OB material for stowing will be explored.
	A detailed calendar plan of production with plan for OB dumping and backfilling (for OC mines) and reclamation and final mine closure plan for each mine of cluster-III shall be drawn up and implemented. The schedule of backfilling should be clearly brought out and submit the same to MoEF.	Calendar plan has been prepared. Mine closure plan as per the guidelines of Ministry of Coal and on the basis of cluster concept is under preparation by Central Mine planning and Design Institute (CMPDI).
	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and Stabilized with plantation so as to withstand the poak water flow and prevent mine inundation.	It is being complied.

\$ a"	The rejects of washeries in Cluster –III should be send to FBC based plant.	Coal Washery does not exist in this cluster at present.
Ix	No mining shall be undertaken where underground fires continue. Measure shall be taken to prevent/check such fire including in old OB dump areas where the fire could start due to presence of coal/shale with sufficient carbon content.	It is being comp ied.
X	There shall be no external OB dumps. OB produce from the whole cluster will be 80Mm ³ . OB from 2 OCP in mixed mines shall be backfilled. At the end of the mining there shall be no void and The entire mined out area shall be re-vegetated. Areas where opencast mining was carried out and completed	At the end of mining there shall be no void and area will be re-vegetated and reclaimed. Action is being taken as specified in EMP.
	shall be reclaimed immediately thereafter. It was observed that most of the OB's are not reclaimed and abandoned. The proponent should dump all the OB material I n abandoned mines.	
Xi	Number of voids present in cluster – III at the end of mining should be backfilled upto ground level and no void should be left at the end of mining.	It shall be complied.
Xiii	Mining shall be carried out as per statuette from the streams/nalas flowing within the lease and maintaining a safe distance from the Nalas flowing along the lease boundary. A safety barrier of a minimum 60m width shall be maintained along the nalas/water bodies. The small water bodies in OC shall be protected to the extent feasible and the embankment proposed along water body shall be strengthened with stone pitching.	It is being followed. Action for construction of embankment has been taken as specified in EMP.
XiV.	Active OB dumps near water bodies and rivers should be rehandled for backfilling abandoned mine voids. However, those which have been biologically reclaimed need not be disturbed.	No OB is being dumped near water bodies. Eco-restoration work is under process.
xv	Thick green belt shall be developed along undisturbed areas, mine boundary and in mine reclamation. A total area of 854.72 ha shall be reclaimed and afforested.	It is being complied. Plantation is being done for development of green belts as per EMP.
xvi	Details of transportation, CSR, R&R and implementation of environmental action plan for the clusters-III should be brought out in a booklet form within a year and regularly updated.	It shall be complied.
Xvii	Specific mitigative measures identified for the Jharia Coalfields in the Environmental Action Plan prepared for	Dhanbad Action Plan is being implemented. The salient actions of this

	Dhanbad as a critically polluted are and relevant for	al. steen
	Cluster III shall be implemented.	cluster
	Cluster in shan be implemented.	Covered transportation of coal.
		Water sprinkling
		Plantation.
		Utilisation of surplus mine water.
xviii	The locations of monitoring stations in the Jharia	The fixing up of locations of monitoring
	Coalfields should be finalized in consultation with the	stations in the Jharia Coalfields has been
	Jharkhand State Pollution Control Board. The	taken up with the Jharkhand State
	Committee stated that smoke/dust emission vary from	Pollution Control Board.
i	source to source (fuel wood, coal, fly ash from TPPs,	The work of mon-toring of ambient
	silica from natural dust, etc) and a Source	environment will be done through
	Apportionment Study should be got carried out for the	Central Institute of Mining & Fuel
	entire Jharia Coalfields. Mineralogical composition	Research (CIMFR), Dhanbad who is
	study should be undertaken on the composition of the	having CSIR laboratory recognized under
	suspended particulate matter (PM ₁₀ and PM _{2.5}) in Jharia	the EP Rules. For the source
	Coalfields and also quantified. These studies would help	apportionment study the action has
:	ascertain source and extent of the air pollution, based	been taken with help of CMPDIL.
	on which appropriate mitigative measures could be	Presently ambient air is being monitored
	taken.	through BCCL own Laboratory at HQ
		level.
Xix	The Plan for conveyor-cum-rail for Cluster-III should be	Action has been taken for preparation of
	dovetailed with Jharia Action Plan. The Committee	the transportation plan for conveyor
1	desired that road transportation of coal during Phase-I	cum rail system of dispatch through
	should be by mechanically covered trucks, which should	CMPDIL
	be introduced at the earliest. Coal dispatch shall be	By that time transportation is being done
	diverted from the present rail sidings to Rapid Loading	by covering vehicle with tarpaulin cover.
ĺ	System (RLS) soon after the construction and	Action for mechanical covered trucks has
	commissioning of the RLS at Maheshpur is completed.	been taken.
	The railway siding order issued and same would come in	
	3 years. The details of same should be provided to	
!	ministry. The mode of transportation of coal by truck till	
	Railway Siding should be by mechanically covered trucks	
Xx	3756 nos of PAF's should be rehabilitated at cost of Rs	It is being followed as per the approved
	27012.66 Lakhs as per the approved Jharia Action Plan.	Jharia action plan
Xxi	Regular monitoring of groundwater level and quality of	It shall be complied. The work of
	the study area shall be carried out by establishing a	monitoring will be done through Central
	network of existing wells and construction of new	Institute of Mining & Fuel Research
	peizometers. The monitoring for quantity shall be dome	(CIMFR), Dhanbad who is having CSIR
	four times a year in pre-monsoon (May), monsoon	laboratory recognized under the EP
	(August), post-monsoon (November) and winter	Rules. Presently CMPDI is monitoring the
	(January) seasons and for quality including Arsenic and	ground water level.
	Fluoride during the month of May. Data thus collected	
	shall be submitted to the Ministry of Environment &	
	Forest and to the Central Pollution Control Board/SPCB	Fixing up the monitoring stations for this
	quarterly within one month of monitoring. Rainwater	purpose is in process with Jharkhand
	harvesting measures shall be undertaken in case	State Pollution Control Board.
	monitoring of water table indicates a declining trend.	
Xxii	Regular monitoring of subsidence movement on the	It shall be complied.
	surface over and around the working area and impact on	· · · · · · · · · · · · · · · · · · ·

air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any. High root density tree species shall be selected and planted over areas likely to be affected by subsidence. Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains. Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads. No depillaring operation shall be carried out below the township/colony. A detailed CSR Action Plan shall be prepared for Cluster Ilscroup of mines. Specific activities shall be identified for CSR for the budget of Rs 139 Lakhs per year@ Rs 5/T of coal as recurring expenditure. The 491.91ha of area within Cluster III ML existing as waste land and not being acquired shall be put to productive use under CSR and developed with fruit bearing and other useful species for the local communities. Third party evaluation shall be got carried out regularly for the proper implementation of activities undertaken in the project area under CSR. Issue raised in the Public Hearing shall also be integrated with activities being taken up under CSR. The details of CSR undertaken along with budgetary provisions for the village-wise various activities and expenditure thereon shall be uploaded on the company website every year. The company must give priority to capacity building both within the company and to the local youth, who are motivated to carry out the work in future. The gap/space available between the entire mine area should be suitably planted with native species. Plantation should also be made in vacant area and along the road side so as to reduce dust pollution.			
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 left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any. Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any. High root density tree species shall be selected and planted over areas likely to be affected by subsidence. Depression due to subsidence resulting in water accumulating within the low lying areas shall be filled up or drained out by cutting drains. Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads. No depillaring operation shall be carried out below the twomship/colony. A detailed CSR Action Plan shall be prepared for Cluster likeroup of mines. Specific activities shall be identified for CSR for the biodget of Rs 139 Lakhs per year? Rs 5/T of coal as recurring expenditure. The 491.91ha of area within Cluster III ML existing as waste land and not being acquired shall be put to productive use under CSR and developed with fruit bearing and other useful species for the local communities. Third party evaluation shall be got carried out regularly for the proper implementation of activities undertaken in the project area under CSR. Issue raised in the Public Hearing shall also be integrated with activities being taken up under CSR. The details of CSR and developed with fruit bearing and other useful species for the local communities. Third party evaluation shall be got carried out regularly for the proper implementation of activities undertaken in the project area under CSR. Issue raised in the Public Hearing shall also be integrated with activities being taken up under CSR. The details of CSR undertaken along with bu		natural drainage pattern, water hodies, vegetation	
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1	developed for use of all inhabitants.	taken for identification of land for
£1X	The mine water should be treated properly before supply to the villager.	development of nerbal garden. It is being complied
XXXI	Details of transportation, CSR, R&R and implementation of environmental action plan for each of the clusters-III should be brought out in a booklet form within a year and regularly updated.	It shall be complied.
Xxxv	Mine discharge water shall be treated to meet standards prescribed standards before discharge into natural water courses/agriculture. The quality of the water discharged shall be monitored at the outlet points and proper records maintained thereof and uploaded regularly on the company website.	It is being complied. Jharkhand State Pollution Control Board has been consulted for this purpose. The monitoring will be done through Central Institute of Mining & Fue! Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules. Presently mine water is being monitored through BCCL own Laboratory at HQ level.
Xxxvi	No groundwater shall be used for the mining activities. Additional water required, if any, shall be met from mine water or by recycling/reuse of the water from the existing activities and from rainwater harvesting measures. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry to dewatering of mine.	It is being complied and mine water is being used for the industrial purpose. Further Mine water is also utilized for the community and irrigation purposes.
Ххэсэй	The void shall be converted into a water reservoir of a maximum depth of 15-20 m and shall be gently sloped and the upper benches of the reservoir shall be recognized with plantation and the periphery of the reservoir fenced. The abandoned pits and voids should be backfilled with OB and reclaimed with plantation and or may be used for pisciculture.	It shall be complied. At the end of mining a part of the void will be converted into the water body as specified in EMP.
Xxxix	ETP shall also be provided for workshop, and CHP, if any. Effluents shall be treated to confirm to prescribe standards in case discharge into the natural water course.	Proposal for Oil grease Trap for different mines of cluster-III is being taken-up.
XxxI	The location of monitoring stations in the Jharia coalfield should be finalized in consultation with Jharkhand State Pollution Control Board.	The fixing up of locations of monitoring stations in the Jharia Coalfields has been identified by the Jharkhand State Pollution Control Board.
XI	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one	Complied. Presently a time series map of vegetation cover in the Jharia Coal Field is being carried out through CMPDI Ranchi. Further CMPDI has been requested to

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	particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhubaneswar.	prepare "Time series of land use maps based on satellite imagery of the core zone and buffer zone in the scale 1:50000 for every 3 years.
	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration.	CMPDI has been requested to prepare cluster wise "Final Mine Closure Plan along with a Plan for Habitat Restoration and with details of Corpus Fund".
XIII	A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration. The mining plan and postmining plan, closure plan should be prepared and submitted to the Ministry;	CMPDI has been requested to prepare cluster wise "Final Mine Closure Plan along with a Plan for Habitat Restoration and with details of Corpus Fund".
Xliii	A separate management structure for implementing environment policy and socio-economic issues and the capacity building required in this regard.	A full-fledged Environment Department, headed by a HoD (Environment) along with a suitable qualified multidisciplinary team of executives (12 nos.) which includes Environment, Mining, Excavation, Civil, Survey , Electrical & mechanical, Forestry disciplines executives and technicians (4 nos.) has been established in Headquarters. They are also trained in ecological restoration, sustainable development, rainwater harvesting methods etc. At the project level, one Executive in each area has also been nominated as Project Nodal Officer (Environment) and is also entrusted with the responsibility of compliance and observance of the environmental Acts/Laws including environment protection measures. The act vities are monitored on regular basis at Area and at Head quarters levels. GM (Environment) at head quarter level. co-ordinates with all the Areas and reports to the Director (Technical) and in turn he reports to the CMD of the company.

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gr.	•	The team is multidisciplinary and very much motivated under the guidance of company's Director (Technical) and CMD. Further capacity building at both corporate and operating level is being done.
Xiiv	The Company shall have a well laid down Environment Policy approved by the Board of Directors.	A well defined Corporate Environment Policy has already been laid down and approved by the Board of Directors. This is also posted on BCCL website.
	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.	Complied.
	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	A hierarchical system of the company to deal with environmental issues from corporate level to mine level already exists.
	d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Baard of Directors of the company and/or shareholders or stakeholders at large.	Being complied.
В	General Conditions by MOEF:	
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and Forests.	Being complied.
li -	No change in the calendar plan of production for quantum of mineral coal shall be made.	Being complied.
lii	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 Nox monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and	Locations of monitoring stations in the Jharia Coalfields have been identified by the Jharkhanc State Pollution Control Board.
	environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	The work of monitoring of ambient environment will be done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having CSIR laboratory recognized under the EP Rules.
lv	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	It shall be complied.

<i>,</i>	Ministry including its Regional Office at Bhubaneswar and to the State Pollution Control Board and the Centra Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	
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 HFMM, etc shall be provided with ear plugs/muffs.	Being Complied.
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 December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	the Jharkhand State Pollution Control Board. The work of monitoring of ambient environment will be done through Central Institute of Mining & Fuel Research (CIMFR), Dhanbad who is having laboratory recognized under the EP Rules. Presently mine effluent is bein monitored through BCCL own Laborators
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.	at HQ level. It is being Complied.
	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognized under EPA Rules, 1986.	It is being done.
lx	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Being Complied. Vocational training Centers and Human Resource Development Deptt. Is conducting regular training programme in this
X	corrective measures, if needed and records maintained	regard. Initial Medical Examination (IME) and Periodical Medical Examination (PME) of all the personnel are carried out as per the Statutes and Director General of Mines Safety (DGMS) guideline.

A separate environmental management cell with suitable	A full-fledged Environment Department,
qualified personnel shall be set up under the control of a	headed by a HoD (Environment) along
Senior Executive, who will report directly to the Head of	with a suitable qualified multidisciplinary
the company.	team of executives (12 nos.) which
the company.	includes Environment, Mining,
	Excavation, Civil, Survey ,Electrical &
	mechanical. Forestry disciplines
	executives and technicians (4 nos.) has
The second secon	been established in Headquarters. They
•	are also trained in ecological restoration,
	sustainable development, rainwater
	harvesting methods etc. At the project
	level one Executive in each area has also
	been nominated as Project Nodal Officer
	(Environment) and is also entrusted with
	the responsibility of compliance and
	observance of the environmental Acts/
	Laws including environment protection
	measures .The activities are monitored
	on regular basis at Area and at Head
	quarters levels. GM (Environment) at
	head quarter level, co-ordinates with all
	the Areas and reports to the Director
	(Technical) and in turn he reports to the
	CMD of the company.
	The team is multidisciplinary and very
	much motivated under the guidance of
	company's Director (Technical) and
	CMD. Further capacity building at both
	corporate and operating level is being
	done. It is being complied.
The funds earmarked for environmental protection	
measures shall be kept in separate account and shall no	ot
be diverted for other purpose. Year-wise expenditure	
shall be reported to this Ministry and its Regional Office	е .
at Bhubaneswar.	
The Project authorities shall advertise at least in two	It has been complied.
local newspapers widely circulated around the project.	
one of which shall be in the vernacular language of the	Advertisement in local newspaper is
locality concerned within seven days of the clearance	enclosed as annexure-B.
letter informing that the project has been accorded	
environmental clearance and a copy of the clearance	
letter is available with the State Pollution control Boar	rd
and may also be seen at the website of the ministry of	f '
Environment & Forests at http://envfor.nic.in .	
Environment & Forests at Intip.//envior.me.m.	,
A copy of the environmental clearance letter shall be	Complied.
marked to concern Panchayat/Zila Parishad, Municipa	
Corporation or Urban local body and local NGO, if any	<i>(</i> ,
from whom any suggestion/representation has been	
from whom any suggestion, representation	

/	received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	
Χv	A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.	Complie
Xvi	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM10, PM2.5, SO ₂ and NO _x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	Complied.
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 Office s of CPCB and the SPCB.	Being complied.
Xviii	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Shall be complied.
Xix	The Environmental statement for each financial year ending 31 March in For –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 by E-mail	Being Complied.

Other Conditions by MOEF: The Ministry or any other Agree. competent authority may stipulate any further condition for environmental protection. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986. It is being complied conditions The above iiiw ieenforced under the inter-alia. of the provisions Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil

Agree.

contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

The Environmental Clearance is

subject to the outcome of the Writ Petition filed by M/S Bharat Coking Coai Limited (BCCL) in response to the classic orders issued by the Jharkhand State Pollution Control Board which is pending in the Jharkhand High Court.

Nodal Officer (Env)
Govindpur Area, BCCL.

Addl. General Manager Govindpur Area, BCCL.

Annexure- A



Bharat Coking Coal Limited (A Subsidiary of Coal India Limited) Office of HOD(Environment) Koyla Bhawan, Koyla Nagar Dhanbad 826005

Ref. No.BCCL/HOD(Env)/F- MP/13/ 610

Dated 21.05 2013

To,

Dr Vinod Kumar, Group Head, Geosciences group Sc/Eng-SG National Remote Sensing Centre Indian Space Research Organization Dept of Space, Govt Of India, Balanagar, Hyderabad Andhra Pradesh-500625

Subject: Regarding proposal for "Delineation of Surface Coal Fire and associated Land Subsidence in Jharia coalfield, Jharkhand using satellite based remote-sensing techniques at a cost of Rs 19.70 Lakhs submitted by e-mail on 15.05.2013

D/Sir

We are in receipt of the aforesaid proposal, sent by email on 15.05.2013, covering two components of the scope of study and subsequent communication by BCCL vide letter no. BCCL/D (T) Op/F-Env/2012/148(A) dated 11.02.2013:

Part 1: Coal Fire mapping of Jharia Coalfield using Thermal Infra-red data - for a cost of Rs. 6,70,721=00. The study is proposed to be completed within 8 months and Part 2: Land subsidence mapping of Jharia Coalfield using Interferometric SAR data for a cost of Rs. 12,98,571=00. The study is proposed to be completed within 12

Competent authority of BCCL has approved both the two components as above .You are therefore requested to submit your invoice for 90% amounting to 17.73 Lakhs, of the cost of the project Rs 19.00 Lakhs at the earliest for placing the work order and releasing the 90% amount.

Thanking you,

Yours faithfully,

Annexure- 🚱

राखें रिवर्त	(दर्भारः इण्डिया लिमिटेड का । गणकीय व्यक्तिमें के सूचित पत्र जनाई कि मिन्सिकित्व	Account Section
1190	वर्षेत्र कारामुह (Cluster) शिसमें 63 खाने एत 02 वाक्सील सर्वितिस स्थान के देन प्रबंदित एक्सी (Environmental Cloarance)	। है, को प्रशंसरण एव प्रथम किया जा जुक
	ade temeral es dui	स्वीकृति आदेश संख्या एवं सिह
1.	च्युन (Cranter) । ने(स्थं आतः क्षीकिंग क्येन विक्रिकेट व्यक्ति कार्यकान्य में देखार कार्यक च्यापुर, जिला- व्यवधार, इतास्त्रेव की क्योंक स्मृत को 3 क्योंने प्रभोध (एशांवायी प्रथाय) ओकी. स्थायेत स्थायेत स्थायेत स्थायेत क्षेत्र वेश्वस्य स्मृत की अर्थ (२८५ क्रिकेटम के एक सिम्प्लिक पूर एस क्षेत्र में २,ए एसटी मीच सामान एवं (.17 क्षार दी प्रीप् (उक्स))	2009-1म्, 11 (एम) विशेष्टः 6 फरदारी 2013
2.	प्रमुख (Chashar) में - मेमको शारत कोर्बिशन कोरत विविद्येष्क, झारीबा कांनापित्यकुत में हैस्सा, शिक्ता- पानवाद, इतरावीद कोर 2025, 21 हेक्केसर की एक पोताबिक्त एस एक केंद्र में (20,215 एस की पी पूर्वी) उसके उरसम्बन के राज्य 15,55 एस ही यो ए सामित्रीका उत्तरावंत समावाब्दी 5 आहें)	,2011-1ए, ११ (एस) विनोक्तः 6 प्रकारी २०१३
3.	नापुर (Gluster) है। ं मेदार्थ जाता कोतिया कोता वितिहरेड, प्रार्थिय कार्योक्ष्यकृत मेदिया जिलान अलाव्य इंडाम्टर्सक की 1420-5 हेक्टेयर की प्रकार कीर्माणित की कुछ केता में 3.6 स्था देंगी ए की उच्च कार्यान्त की 7 साले (56.31-3010 की उद्योग की गई ही जो उत्तर पर अध्यानित ईसी;	के-11015/213 2010-1स, 11 (सम्) विनोकः
d,	पस्त (Crusion) IV: प्रामितिक क्योंकित मुन्ताम को क्योंकित केवान गारक क्योंकिया कराम निर्मार्थक, क्योंकिया क्योंकिया को स्थित है क्यान गारकार, इसरवार की 1123-19 केवोदार को एक ब्योंकिस का बाम केवा में 2.851 एवं दो से ए (स्थापन) 5.706 एवं दी से ए (उच्चा) की क्यान्स इसमा के पात 6 क्योंने	9-11018/212 2010-10 11
5.	सन्तर (Chusler) V : नेतारं आरत प्रोधिन क्रोक शिकेट्स, प्रवृत्तिया अनेवीक्तपुरा में निक्ता शिका अवान, स्वास्त्र, स्वत्यंत्र क्षां 1997 200 हेवाँ का वी एक रहिमोजन राम एक शिका के अध्य (श्वासामा) 6.311 (३०६) मूच से किए ते अपना अध्य 7 जानें (16.03.2011 को प्रधान को यह काई से क्षां कारा अध्यतित है तो)	के-11015/01/ 2011-1ए 11 (एम) क्लिक : 11 प्रकारी 2013
6.	न्यपुर (Chuster) VII : नेवार्स भारत क्वांकिमा ब्रोक्स रिलीप्टेड, झासेब्स क्वांनीम्प्रतुपर्व में सिक्स, जिला- क्वांनाम, झारत्वेस को 2727 र केन्द्रीय स्था क्यांनीम्प्रतुप्त में क्यां क्षा कर्य के 16 प्रतुप्त के क्यांना के स्था 237 कर्णा देवं एं जो लोगानित व्यन्ता (०७.72.2010 को क्यांना क्यांना री क्यो आप पर आकार्तत हुंकी) (क्रांतीर चुनिमात व्यंत धूर्वी भारत्योंक को शहकर)	अ-11015/238/ 2010-1ए. 11 (एम) दिनांबा: 6 पासकी 2013
> .	अपन (Country X.) देवारी आगा क्रांक्रिक कोण विश्विदेश, अविश्व अध्येद्वान्यकृति विकार, भित्र कामात, प्रत्याव्य के प्रत्यान्त्र के विकार, भित्र कामात, प्रत्याव्य कर्ण में पित्र के प्रत्यान कर्ण कर्ण कर्ण कर्ण कर्ण कर्ण कर्ण कर्ण	जे:11015/880/ 2010-19: 11 (प्रम) विशेष्णः 6 प्रत्यमी 2013
The state of the s		ज-11015/185/ 2010-14, 11 (एग) दिलांक: 6 फाल्बरी 2013
1	1183.91 (क्टेंबर के एक. लॉमॉलिस त्याचल क्षेत्रचे 5.605 एकडी का प्रयुक्त का उत्पादन के राज्य 43 ; एम ट्री के उच्चे द्रावित्रक क्ष्म	वे-11015/298/ 2010-14, 11 (एम) दिनांक : 15 फल्परी 2013

A.	Bharat Coking (Cell Limite
4	(A Subsidiary of Coa	Ind a Limited
Th	a is to bring into poting of all assessment	The state of the s
SI	vironmental Clearances by Ministry of E	nyingi mental and forest
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	(Altino: Section) OCP, Damoda 16,1 Damuce BJ Section OCP) Group o Mill 0.9 MTPA normative and 1.17 MTP; (ac	es of Fig. 2013
4	Coking Coal Lts.; located in Tharia coa-	foresin.
	THOUGH COMPONER ON DESCRIPTION FOR STANDS	Name of the Control o
3	Cluster-il (5 mines of a combined pro or \$5.55 MTPA with a peak production of 2 frTPA) in a combined ML area of 24 25 for Min Bharat Coking Coal, in larges in	packy J-11015/35/20 1
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	MIPA in a combined ML area of 1421 61	(a) of 1A II (M) dated it
	Excellence First Drambard Insultane	
	gun i um grantea ap 64, 11, 2010)	
4.	10 to hope 132 20 mel 101	sanior Laurana anno an
	2.851 MTPA (Normative) 3.70s MTPA (Normative)	aki ni fa li iMi detection
	a common ed ML area of 1123.79 na) of 1 /s E Coking Coal Est, located in Jharia (oat	Salat Feb 2013
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5.	Cluster-V (7 mines of a 4.854 (Norms tive	and Late 16/01/2017
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ď	and peak production of 2.289 MTPA	In this call that make a con-
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- i	Clister Afili Cropp of 40 14	
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4	Coking Coal Lid. located in Jhana Co illie list Dhanbed, Jhanhand.	ds.
		ith he Sharkheind State