



Bharat Coking Coal Limited (A Subsidiary of Coal India Limited) Office of the Project Officer Kapuria Project, Mahuda, Dhanbad.

Ref No :- BCCL/PO/KAPURIA/Env/2018/94-4

To the Director

Ministry of Environment, Forest & Climate Change

Regional Office (ECZ), Bungalow No. A-2

Shyamli Colony

Ranchi - 834002



Sub: Six monthly report for the period from 1st April 2018 to 30th Sept 2018 on Compliance to Environmental Clearance from MoEF, Govt of India for Cluster – XII of Kapuria UG Project, M/s Bharat Coking Coal Limited.

Dear Sir

Enclosed herewith please find the six monthly report on Compliance to Environmental Clearance from MoEF, Govt of India vide letter no J-11015/184/2012-IA. II(M), dated 10th Dec 2014 for Cluster-XII of Kapuria UG of M/s Bharat Coking Coal Limited for your kind perusal and further needful action please. It is also to bring to your kind notice that the project has been delayed due to the delay in physical possession of land.

Project Officer

Kapuria U/g Project

Encl: as above.

Copy to:

1. Director, IA, Monitor Cell, Paryavaran Bhawan, CGO Complex, New Delhi 110003.

2.GM W.J.A.BCCL

3 DY GM (Env), BCCL

4.Office Copy

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Six Monthly Compliance Report of EC

order of Cluster-XII for the period from 1st April 2018 to September 2018

SI	Specific Condition	Action
No		1.000
!	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Project has not started yet. Land acquisition is under process. This condition shall be complied as the production starts.
11	A separate team for subsidence monitoring and surface mitigation measures be constituted and continuous monitoring and mitigation measures be carried out.	Shall be complied. Project is under construction phase.
111	The validity of EC is for the life of the mine or as specified in the EIA notification, 2006, whichever is earlier.	Agreed.
IV	The coal transportation from the mine to the siding shall be by conveyor belt and coal transportation from siding to washery shall be by rail.	Shall be complied.
V	Piezometers be installed upto the depth of mining to facilitate monitoring of ground water.	The work of monitoring of ground water is being carried out by CMPDI.
VI	Water sprinkler be used for coal dust suppression along the haul road.	Shall be complied.
VII	Thick green belt shall be developed around proposed washery within the cluster-XII lease area and plantation shall be undertaken along NH-32.	Shall be complied.
VIII	Subsidence study shall be taken up with reputed scientific agency as per stipulation of DGMS.	Shall be complied.
IX	Various CSR works that will be carried out shall include education, healthcare, water supply etc.	Shall be complied.
X	The project should have ecologist / social scientist to monitor the project.	BCCL is following the roadmap prepared by FRI, Dehradun to restore ecology in the region and conducting the work of ecological restoration in the mined out areas. BCCL has also got facilitated by the guidance of Prof. C R Babu, CEMDE, University of Delhi.
XI	Coal produced from the mine will be directly loaded into a CHP at the incline top. From the CHP at incline top, coal will be transported to the proposed Kapuria coal washery linked to the mine by covered conveyor system of length 250m. Washed coal from the washery will be transported by conveyor to the railway siding and loaded into the wagons by CHP.	
XII	The production shall be within the same mining lease area.	Shall be complied.

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23	At the time of establishing the CHP, it is	Shall be complied.
	proposed to establish mist spray arrangements and also enclosing the ground level bunkers up	
1		
	to the level of gantry.	Shall be complicat
24	An afforestation plan to be prepared for	Shall be complied.
	implementation after stabilization of	· · · · · · · · · · · · · · · · · · ·
	subsidence.	Shall be complicat
25	Water spraying arrangements at loading points	Shall be complied.
	and mist spray arrangements are to be	
	provided.	Shall be complied
26	No additional land, manpower and equipment	Shall be complied.
	and water shall be used for the expansion	A roll 4
	project.	
27	Mine closure activity include sealing of incline	Mine closure plan will be formulated as
	mouth, dismantling of haulage system, cleaning	per the guidelines of Ministry of Coal Gol.
	and afforestation of coal stock area, plantation	11.5
1	on barren land and old abandoned mine.	27 (C.17) NO. 101
28	3-tier plantation should be developed 2 Km	Shall be complied.
	stretch of road from the mine using native	, ' - E gl'
	species.	
29	Garland drains around the safety area such as	It will be done as per EMP.
	mine shaft and low lying areas and sump	the state of the s
	capacity shall be designed keeping 50% safety	10 mg
	margin over and above the peak sudden rainfall	Application of the second
	and maximum discharge in the area adjoining	ALTONOMICO C. P. L.
	the mine site. Sump capacity shall also provide	
	adequate retention period to allow proper	and who a fit given a fig.
	setting of silt material.	the state of the s
30	Water sprinkling system shall be provided to	Shall be complied.
	check fugitive emissions from loading	r, ry i i siddi en fa
	operations, conveyor system, haulage roads,	- 1 100 C of 12
	transfer points etc. Major approach roads shall	the state of the s
	be black topped and properly maintained.	
31	A progressive afforestation plan shall be	Shall be done. EMP and mine closure plan
	prepared and implemented over the mine lease	will be followed.
	area acquired and shall include areas under	
	green belt development, areas along roads	and the second of the second
	infrastructure, along ML boundary and township	the state of the s
	etc. by planting native species in consultation	the state of the s
TE.	with the local FDO / agriculture department	s employ depth from a PAS
32	Regular monitoring of ground water level and	It will be complied. At present CMPDI is
	quality shall be carried out by establishing a	it will be complied. At present com
The land	network of existing wells and construction of	working to establish a network of
	and construction of	piezometer well.

	· · · · · · · · · · · · · · · · · · ·	
	new piezometers. The monitoring for quality	
	new piezometers. The monitoring to a shall be done four times a year, in May, August, shall be done four times a year, and for quality	
	shall be done four times a year, in they, November and January seasons and for quality	
1	in May	Shall be provided if acid water treatment
	in May. Acid water Treatment Plant, volume of water to	Shall be blowned a grantifelt
33	be treated and disposal of brine should be	is required.
	be treated and disposar or asset	
	High root density tree species shall be selected	Shall be provided.
34	High root density tree species shall be affected by	
	and planted over areas likely to be affected by	
	subsidence.	Environmental parameters are being
35	Monitoring of drinking water should be carried	monitored by CMPDI, as per the MoEFCC
	out regularly.	The Art of Age to the Art of the
b		standards.
36	Sewage treatment plant shall be installed in the	Shall be provided.
	township. ETP shall also be provided for	
	workshop and CHP effluents.	
37	For monitoring land use pattern and for post	Presently a time series map of vegetation
J ,	mining land use, a time series of land use maps,	cover in the Jharia coal field is being
	based on satellite imagery (on a scale of 1 :	carried out through CMPDI Ranchi using
	5000) of the core zone and buffer zone, from	satellite imagery for every 3 years and is
	the start of the project till the end of the mine	being uploaded on the official website of
	life shall be prepared once in 3 years (for any	company. Further CMPDI has been
- 1	particular season which is consistent in the time	requested to prepare time series of land
	series), and the report submitted to MoEF& CC	use maps based on satellite imagery of
	and its regional Office at Bangalore.	the core zone and buffer zone in the scale
20	If it is a second of the secon	1:5000.
38	If the water quality parameter such as F, pH,	Shall be done.
	heavy metals etc. exceed the prescribed limits,	1a(d) 1
	suitable measures by the proponent be taken to	real real real real real real real real
1	ensure that the local communities are provided	
	alternate source of water for their livelihood.	to the state
39	Medical camps should be organized in the area	It is being done.
	for regular checkup of workers / villagers /	
	population. Detailed prevalent disease nattern	
	in the area should be documented and detail of	
	medical facilities provided for the same be	The state of the s
	made available to the MoEF&CC.	1 073
40	Mine discharge water outside the ML shall be	Environmental
	monitored, particularly for TDS and treated to	Environmental parameters are being
	confirm to prescribed levels before discharge	monitored by CMPDI, as per the MoEFCC
	into the natural environment.	standards.
41	The Company shall nut up artificial	
1	I CUI di PP I I PASSIFO CA ALLERA	It will be provided and regular monitoring
		shall be done.

Γ		groundwater resource, in case water table	
	- 1	shows a decline trend, the project authorities	
l		shall meet water requirement of nearby	
		village(s) in case the village wells go dry due to	
		dewatering of mine.	
42		Besides carrying out regular periodic health	It will be complied, however, BCCL has
	1	checkup of their workers, 10% of the workers	engaged NIOH for other cluster of BCCL
		identified from workforce engaged in active	to health checkup for occupational
		mining operations shall be subjected to health	diseases and hearing impairment and
		checkup for occupational diseases and hearing	work will be started shortly.
		impairment, if any, through an agency such as	Work will be started shortly.
		NIOH, Ahmadabad within a period of one year	
		and the results reported to this ministry and to	
		DGMS.	
r	43	The mining in the existing mines should be	Agreed, and shall be complied.
		phased out after expiry of of the current mining	ABreed, and shall be complied.
1		lease and after reclamation of mined out area.	
1		The operating mines may be analysed and	
1		monitored for compliance of conditions, bearing	
		with movement of wildlife and until such time	
		they are closed / phased out.	
	44		
		tonne of coal production, as per the annual	organization.
		inflation, should be provided for the CSR	The state of the s
		activities undertaken and the progress made	
		thereon shall be uploaded annually on the	
		company website. Monitoring of the impact of	
		activities under CSR shall be carried out	-
		periodically.	
	45	A final Mine Closure Plan along with details of	Shall be complied.
6	1	Corpus Fund shall be submitted to the Ministry	
		of Environment, Forest & Climate Change, 5 years in advance of final mine closure for	(AA)
		approval.	
1		Corporate Environment Responsibility:	
		a) The company shall have a well laid down	Rharat Coking Carl Ltd :
	2 60	Environment policy approved by the	Bharat Coking Coal Ltd is a subsidiary of
n,		Board of Directors.	Coal India Ltd which is having a well laid down Environmental Policy.
į	40.5	b) The Environment Policy shall prescribe	It is being complied.
		for standard operating procedures to	and a simplica.
Í	No.	bring into focus any infringement /	
		deviation / violation of the	
	11.17	environmental or forest norms /	
		and the second s	

/		
	conditions. c) 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. d) To have proper checks and balances, the company shall have a well laid down system of reporting of non – compliance / violations of environmental norms to the Board of Directors of the company and/or shareholders at large.	It already exists within the company. It will be done, if any.
	B. General Conditions :	
1	No change in mining technology and scope of working shall be made without prior approval of the MoEFCC.	Shall be complied.
2	No change in the calendar plan of production for quantum of mineral / coal shall be made.	Shall be complied. However, production and calendar plan may vary due to land acquisition problem.
3	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM 10, PM2.5, SO2 and NOx monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. carried out at least once in six months.	Shall be complied.
((4	Data on ambient air quality (PM10, PM2.5, SO2 and NOx) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its regional office at Bhubaneshwar and to the state pollution control board once in six months. Random verification of samples through analysis from independent laboratory recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	Shall be complied.
	- la quate measures shall be taken for contra	Shall be complied.

1		
1	environment. Workers engaged in blasting and	
4	drilling operations, operation of HEMM, etc.	
	shall be provided with ear plug / muffs.	
6	Industrial wastewater (workshop and	Shall be complied.
	wastewater from the mine) shall be properly	
	collected, treated so as to confirm 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.	
7	Vehicular emissions shall be kept under control	Shall be complied.
	and regularly monitored. Vehicles used for	g the second second
1.1	transporting the mineral shall be covered with	i tra
1 7	tarpaulins and optimally loaded.	
8	Monitoring of environmental quality	Environmental parameters are being
	parameters shall be carried out through	monitored as per NAAQS standards which
	establishment of adequate number and type of	is having CSIR laboratory.
1	pollution monitoring and analysis equipment in	Monitoring stations have been finalized
1	consultation with the State Pollution Control	with Jharkhand State Pollution Control
	Board and data got analyzed through a	Board, Ranchi.
-	laboratory recognized under EPA rules, 1986.	
9	Personnel working in dusty areas shall wear	Shall be complied.
	protective respiratory devices and they shall also be provided with adequate training and	
	information on safety and health aspects.	
10		Shall be complied.
	the workers shall be undertaken periodically to	7 36 1 1 1
	observe any contractions due to exposure to	
	dust and to take corrective measures, if needed	als was in
_	and records maintained thereof. The quality of	*,**
	environment due to outsourcing and the health	ad - 40
	and safety issues should be addressed by the	() =
-	company while outsourcing. A separate environmental management cell	A full-fledged environment department
	with suitable qualified personnel shall be set up	headed by a HoD (Environment) along
100	under the control of a senior executive, who will	with a suitable qualified multidisciplinary
	report to the head of the company.	team of executives has been established
Part of		in the headquarters. They are trained in
186		ecological restoration, sustainable
		development, rainwater harvesting
	12 The funds earmarked for environmental	methods, etc. Shall be complied.
100	The failed comments for environmental	Strait de Complied.

		The same of the sa	-
	protection measures shall be kept in separate		
	account and shall not be diverted for other		
	purpose. Year wise expenditure shall be		
	reported to this ministry and its concerned	536	
	regional office.	It is complied.	-
13	The project authorities shall advertise at least in	it is compiled.	
	two local, newspapers widely circulated around		
	the project, one of which shall be in the	4 41000	
	vernacular language of the locality concerned		
	within seven days of the clearance letter		
	informing that the project has been accorded		
	environmental clearance and a copy of the	16.	
	clearance is available with the State Pollution		
	Control Board and may also be seen at the	a series of a seri	
	website of the ministry of Environment & forest.	, 4/1	
14	A copy of the environmental clearance shall be	It is complied.	
	marked to concerned panchayat / zilla parishad,	1000	
	Municipal Corporation or Urban local body and	7.000	
	local NGO, if any, from whom any suggestion /	100	
	representation has been received while	The state of the s	
	processing the proposal. A copy of the clearance	and the state of t	
	letter shall also be displayed on the company's	and the second s	
	website.	4ps 20 4231 00	100
15	A copy of the environmental clearance letter	It is complied.	
	shall also be displayed on the website of the		
A	concerned State Pollution Control Board. The EC		
141	letter shall also be displayed at the regional	1.11	
	office, district industry sector and collector's		
	office for 30 days.	II to a second to d	_
16	The clearance letter shall be uploaded on the	It is complied.	
, G = 2	company's website. The compliance status of	The monitoring data of environmental parameters to be displayed at project	
10	the stipulated environmental clearance	premises shall be complied once the	C. B
10,	condition shall also be uploaded by the project	project starts.	1
197	authorities on their website and updated once	project starts.	11
1.1	at least in every six months so as to bring the	ALTO A	9 7 /
100	same in public domain. The monitoring data of	gerthesia P	
- 40	environmental parameter (air, water, noise and	and Production	160
mp 4	soil) and critical pollutants such as FW10,		
15.	PM2.5, SO2 and NOX (ambient) and critical		6 1
100	sector parameters shall also be displayed at the	1	20
200	file arology premises and mine	. And the second	113
	office and in corporate office and on some	South Committee of the	13
170 + 1	website.	REAL CONTRACTOR OF THE PARTY OF	1
	environmental parameter (air, water, noise and soil) and critical pollutants such as PM10, PM2.5, SO2 and NOx (ambient) and critical sector parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.		

17	The project proponent shall submit six monthly	It is being complied.
1	compliance report on status of compliance of	it is being complied.
	the stipulated environmental clearance	
	conditions (both in hard conv and amail) to the	
	respective regional office of the ministry	
	respective zonal office of CPCB and the SPCB.	
18	The regional office of this ministry located at	It is being complied.
	Bhubaneswar shall monitor compliance of the	it is being complied.
	stipulated conditions. The project authorities	
	shall extend full co-operation to the office(s)of	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	the regional office by furnishing the requisite	
	data / information /monitoring report.	
19	The Environment Statement for each financial	It is being complied.
4	year ending 31 st March in Form – V is mandated	it is being complied.
	to be submitted by the preject property	77
9	to be submitted by the project proponent for the concerned State Pollution Control Board as	
	prescribed under the Environment (Protection)	Co. a.
	Rules, 1986, as amended subsequently, shall	
	also be uploaded on the company's website	
	along with the status of compliance of EC	14 g 11 11 1 1 1
	conditions and shall be sent to the respective	1
-	regional offices of the MoEF by email.	
-	C. Other Conditions by MoEF:	Amend
4	The proponent shall abide by all the	Agreed.
	commitments and recommendations made in	
	the EIA / EMP reports so also during their	
	presentation to the EAC.	Shall hadanaan had
5	The commitment made by the proponent to the	Shall be implemented.
	issue raised during Public Hearing shall be	
	implemented by the proponent.	Accord
6	The proponent is required to obtain all	Agreed.
	necessary clearances / approvals that may be	
	required before the start of the project. The	1
	ministry or any other competent authority may	
	stipulate any further condition for	1
	environmental protection.	A
7	The ministry or any other competent authority	Agreed.
	may stipulate any further condition for	7.7
	environmental protection.	16-201
8	The proponent shall set up an Environment	It will be done.
	Audit cell with responsibility and accountability	
	to ensure implementation of all the EC	
Maria	conditions.	the final to the second of the

9	Concealing factual data or submission of false / fabricated data and failure to comply with any	Agreed.	
	tabricated data and failure to comply with any		
	of the conditions mentioned above may result		74.4
	in withdrawal of this clearance and attract		
	action under the provisions of Environment		
	(Protection) Act, 1986.	01 111	4600
10	The above conditions will be enforced inter-alia,	Shall be complied.	- 10
	under the provisions of Water (Prevention &		V. (1.)
	Control of Pollution) Act, 1974, the Air	77 17	and the state of
	(Prevention & Control of Pollution) Act, 1981,	34 " parts 1	
1	the Environment (Protection) Act, 1986 and the	The part of the	The state of the s
77	Public Liability Insurance Act, 1991 along with		a off whole
	their amendments and Rules. The proponent	g L 125 L 1 L	
	shall ensure to undertake and provide for the	A 5 400	
	costs incurred for taking up remedial measures	f: 12	Market 18
	in case of soil contamination, contamination of	man of the state of	typida in the
	ground water and surface water, and	£1	Losin in S
	occupational and other disease due to the	1 2	
	mining operations.	0 1 1 1 1 1 1 at 1	
11	Any Appeal against this environmental	Agreed.	A STATE OF THE STA
	clearance shall lie with the National Green	7.8.000	
	Tribunal, if preferred, within a period of 30 days		
	as prescribed under Section 16 of the National	1.0	
la contractor	Green Tribunal Act, 2010.	The same of the sa	death rate a seatth
1 1 1 1 1	Green Hibuilal Act, 2010.		A CONTRACTOR OF THE
1	I STATE OF THE STA		The state of the s

Project Officer
Kapuria Project