

नॉदर्न कोलफील्ड्स लिमिटेड
(एक लिमिटेड कंपनी)
ब्लाक-बी परियोजना, पो-गोरबी
Block-B Project, P.O. Gorbi
मध्य प्रदेश 480001, इन्डिया
एन सी ई 14001, इन्डिया 9001, एम एस 19001 &
एन सी ई 14001 (एन एम) परमाणु सुरक्षा



Northern Coalfields Limited

A Min. Ratra Company
Block-B Project, P.O. Gorbi
मध्य प्रदेश 480001
एन सी ई 14001, इन्डिया 9001, एम एस 19001 &
एन सी ई 14001 (एन एम) परमाणु सुरक्षा



Ref.No.: NCL/Block B/GM/Env./1975

Date: 18/02/2013

To,
The Director
Ministry of Environment & Forests
Paryavaran Bhawan, C.G.O. Complex
New Delhi 110010

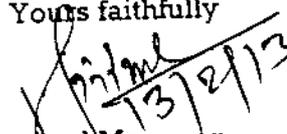
Subject: Six monthly EC compliance report

Dear Sir,

Please find the latest copy of the six monthly compliance report on implementation of environmental condition stipulated by the Govt. of India in environmental clearance letter by MOEF in respect of Block B Project.

Encl: As above.

Yours faithfully


General Manager

Block B Project, NCL, (M.P.)

Copy for information:-

✓ I. R.O., Ad. PCCF, Bhopal.

Copy to:

1. GM, (Env.)- For kind information
2. RD, CMPDI RI VI, Jayant

File No -

(107 (ii))

NORTHERN COALFIELDS LIMITED
BLOCK-B PROJECT

MOEF, Compliance Report for Six month in year 2012-13 (Upto Dec 2012)

S.No.	Specific Condition	Status
(I)	No additional land shall be acquired for the expansion project over the existing lease area of 1339 ha.	No additional land acquired other than lease area of 1339 ha.
(II)	The expansion project shall not involve change in mining area. Mining method and technology. There shall be no additional building or infrastructure proposed for the expansion project there shall be no additional construction of road/rail proposed.	There is no change in method of mining shovel & dumper combination is being used.
(III)	Topsoil if any generated from the expansion project shall be stacked properly with proper slope at earmarked site (S) and shall not be kept active and shall be used for reclamation and development of green belt.	The thickness of topsoil is very less and already used for reclamation of soil (OB Dump) and development of green belt. A location has been fixed in mine for accumulating top soil.
(IV)	There shall be no change in the overall OB generation design and management of OB dump from the planned in the existing project. The maximum height of the OB dump shall not exceed 90m with an overall slope angle not exceeding 28 degree. Monitoring and management of reclaimed dumpsite shall continue until the vegetation becomes self-sustaining compliance status shall be submitted to the MOEF and Regional office BHOPAL MP	OB dumps are as per PR, and reclamation is done by planting trees on OB dumps. Till last year the total plantation on old OB dumps was 45500. It is proposed for plantation of 45000 in year 2013-14 in new OB dumps. The total no of plants planted from 2010 to 2012 is 2.08 lakhs in plain & OB dumps.
(V)	Catch drain and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flow from soil OB and mineral dumps The water so collected shall be utilize for watering the mines area roads green belt development etc. the drains shall be regularly desalted and maintained properly. Garland drains (Size gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site sump capacity shall also provide adequate retention period to allow proper settling of silt material.	Catch drains and Siltation pond has been constructed to arrest silt and sediment flows from soil, OB and mineral dumps. Collected water is being used for watering of mine area roads etc. The drain are being regularly desilted and maintained properly. Garland drains of appropriate size had already been constructed to collect surface run off from the OB and waste dump site(s) and taken to setting pond before discharge.
(VI)	Construction of the retaining wall at the toe of the dumps and OB benches within the mine to check run of and siltation shall be based on the rainfall data.	Proposed in retaining wall to be constructed is about 800 m ² near the dump. The rainfall study has been done by CMPDI RI VI and the retaining wall with garland dump shall be constructed.

OB

Annexure-I

(VII)	Crusher at CHP shall be operated with high efficiency bag filters water sprinkling system shall be provided to check fugitive emissions from crushing operations, Conveyor system haulage roads transfer point etc.	CHP consisting of 2 no. crusher having automatic mist spray arrangement and it is in operation.
(VIII)	The entire coal transportation of 11986 TPD by road shall be covered trucks/dumpers which are optimally loaded. The entire mineral transportation road shall be black topped and properly maintained Avenue plantation shall be developed on either side under CSR	All coal transporting trucks are covered with tarpaulin properly and avenue plantation already developed along CTR.
(IX)	Major approach roads and haul road shall be black topped A3 tier avenue plantation using a mix of native species shall be developed within two year of grant of environmental clearance.	Major approach roads were black topped (4 Km) plantation were done (with a mix of native species) as a given below- 2009-10-49700 2010-11-60000 2012-13-98812 2013-14-60500 (Proposed)
(X)	Drill shall be wet operated only.	All drills are provided with dust extractor.
(XI)	Controlled blasting shall practiced with use of delay detonators and only during daytime the mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Control blasting is being complied and practiced during daytime only.
(XII)	A progressive afforestation plan shall be implemented covering a total area of not less than 601.20 ha. Which includes reclaimed external OB dump and backfilled area? Along ML boundary along roads and infrastructure. Green belt along undisturbed area and in colony by planting native species in consultation with the local DFO/Agriculture department the density of the tree shall be around 2500 plants per ha.	Afforestation on external OB dumps and back filled area is being done as per afforestation plan. Green belt along roads. Colony, Rehabilitation site and other vacant land has completed by planting native species by MPRVVN on the cast of project. During the year 2012-13, 45500 trees were planted on OB dumps and 53312 trees were planted in plain within the mine lease area. The density of plant is 2500-3500 plants/ha in plain and OB respectively. This is continuing process along with mining activity. Present status of afforestation from Yr 2010 208512 plant species planted and 60500 plant species proposed in 2013-14.
(XIII)	Of the excavated area of 460.20 ha. An extent of 113.30 ha of decoaled void shall be backfilled and reclaimed with plantation leaving an area of 346.90 ha as a water body the upper benches of which shall be gently sloped along the higher benches and stabilized by plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture department the density of the tree shall be around 2500 plants per ha.	Total 88.87 ha area has been planted and 19 ha proposed in 2013-14. The plantation is being done as per guideline 2500 plant/ha in plain & 3500 plant/ha in OB dumps. Plantation done in OB dumps for year 2012-13 is 45500 and 45500 proposed for year 2013-14.

Annexure-I

(XIV)	Reclamation of adjacent closed Gorbi Mine shall taken up as part of Block B expansion project and measures for addressing Acid Mine Drainage (AMD) occurring in the Gorbi mine should be included as part of the environmental management plan for this project.	For reclamation of adjacent closed Gorbi mine is under taken up with IIT BHU and IIT Bombay for treatment of AMD.
(XV)	The Project authorities prepare a detail plan for water recharge and harvesting which is implemented after commencement of the expansion project. The project authorities shall meet water requirement of nearby village (s) in case the village well go dry due to dewatering of mine.	The rainwater harvesting plan is under implementation. We are providing check dams, Hand pumps etc
(XVI)	Additional water requirement for the expansion project is to be met from mine/recycled water the project shall reuse 1200m ³ /d and the balance of 3100 m ³ /d of mine water to be treated before discharge. No groundwater shall be used for mining operations. Use of bore well water shall be avoided. Sanction of the competent authority shall be obtained for use of water from the integrated water supply scheme of the G.B.Pant Sagar.	There is no additional water requirement for project. At present 950 KL/day is being generated and 100% is being reused.
(XVII)	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quality shall be done four times a year in pre monsoon (may), monsoon (August), post monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.	Regular monitoring of ground water level and quality is carried out by establishing a network of existing wells. Action has been taken for construction of piezometers. Water level monitoring is carried out four times in a year pre monsoon (April-May), monsoon (August), Post monsoon (November) and winter (January) seasons and for quality in May by CMPDIL, and above data send to regularly to MOEF, Central Pollution Control Board.
(XVIII)	Construction of ETP and STP shall be completed within the current year. Sewage treatment plant installed in the existing colony shall be of adequate capacity. The total wastewater of 5000 m ³ /d to be discharge from the mine shall be treated to conform to prescribed standards for discharge.	There is no water going out of the mine and there is no effluent discharge. However, ETP and STP is under design stage for future.
(XIX)	Beside carrying out regular periodic health check up of their workers. 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational disease and hearing impairment if any through an agency such as NIOH Ahmedabad within a period of two year and the result reported to this Ministry of DGMS.	Medical examination of all employees is being done on the basis of regular periodic health check up of their workers. 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational disease and hearing impairment within a period. (Total no of employer check is 98)

Annexure-I

(XX)	For monitoring land use patten and for post mining land use a time series of landuse maps. Based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone form the start of the project until end of mine life shall be prepared once in 3 year (for any one particular season which is consistent in the series) and the report submitted to MOEF and its Regional office at Bhopal.	The satellite imagery study has been done by CMPDI and is ended report are send to MOEF & Regional office.
(XXI)	Their shall be no additional R&R for the expansion project R&R for the remaining 870 PAPs consisting of 565 losers of homesteads and 305 land losers shall be completed within the agreed time frame. The R&R will be based on norms not less than stipulated under the National R&R Policy/State govt /CIL whichever is higher Monitoring of impact of implementation of various activities and measures outlined in R&R and CSR over the life of the project shall be based on key indices of UNDP Human Development Report using pre project status of socio economics and human development as the baseline and report submitted once every 5 year to the MOEF Regional Office Bhopal.	1. There is no additional R&R. 2. R&R completed for 667 balances 203 due will be done.
(XXII)	A CSR Plan shall provide a minimum annual revenue budget of Rs 125 lakhs The advance under CSR shall be undertaken in consultation with the local communities.	2011-12 budget of CSR was Rs. 179 lakhs. All CSR activities taken up in consultation with local bodies
(XXIII)	A final mine closure plan along with detail of corpus fund shall be submitted to the ministry of environment and forest within one year of approval.	Submitted
General condition		
(I)	No change any mining technology and scope of working shall be made without prior approval of MOEF	No Changes
(II)	No change in the calendar plan including excavation quantum of mineral coal and waste shall be made.	No Changes
(III)	Four ambient air quality monitoring station shall be established in the core zone as well as in the buffer zone for monitoring SPM,RPM,SO2, and NOx and heavy metal such as Hg Pb Cr as etc. Location of the station shall be decided based on the meteorological data topographical features and environmentally and ecologically sensitive target in consultation with state pollution control board.	CMPDI RI VI monitors all locations and report is being submitted regularly.
(IV)	Fugitive dust emission such as (SPM, RPM, and heavy metal such as Hg Pb Cr As etc.)from all the sources shall be controlled regularly monitored and data recorded properly water spraying arrangement on haul roads wagon loading dumper trucks (loading and unloading) points shall be provided and properly maintained.	CMPDI RI VI monitors all locations and report is being submitted regularly. Water spraying arrangement has been provided and maintained.



Annexure-I

(V)	Data on ambient air quality (SPM, RPM, SO ₂ , NO _x and heavy metal such as Hg Pb Cr As etc.) shall be regularly submitted to the ministry including its regional office at Bhopal and to the state pollution control board and central pollution control board in a six month.	CMPDI RI VI monitors all locations and is being submitted regularly.																					
(VI)	Adequate measures shall be taken for control of noise level below 85 DBA in the work environment workers engaged in blasting and drilling operation operation hemm etc. shall be provided with ear plugs/muffs	Adequate measures are being taken by manpower engaged in drilling & blasting.by providing ear plugs/muffs																					
(VII)	Industrial wastewater workshop and wastewater from the mine shall be properly collected treated so as to conformed to the standard prescribe under GSR 422 € 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	ETP scheme is being revised by CMPDI. All mine water generated have been collected in a pond and re use for spraying in road and & other place for dust suppression.																					
(VIII)	Vehicle emissions shall be kept under control and regularly monitored vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Yes, being complied.																					
(IX)	Environmental lab shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board.	The facilities provided at CMPDI RI VI Jayant.																					
(X)	Person working in dusty areas shall wear protective respiratory device and they shall also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposer to dust and to take corrective measures if needed.	Person working in industry areas have already been provided respiratory and water protective devices and proper training and information on safety and health aspect had given to all employee. Medical examination of all employees is being done at the interval of every five year none of the employees is suffering from occupational disease. Distribution of safety items distributed as per given below- <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Safety items</th> <th>Yr 2011</th> <th>Yr 2012</th> </tr> </thead> <tbody> <tr> <td>Mine shoe</td> <td>264</td> <td>302</td> </tr> <tr> <td>Gumboots</td> <td>67</td> <td>93</td> </tr> <tr> <td>Ear plug</td> <td>35</td> <td>92</td> </tr> <tr> <td>Dust Mask</td> <td>632</td> <td>896</td> </tr> <tr> <td>Torch cell</td> <td>396</td> <td>175</td> </tr> <tr> <td>Helmet</td> <td>69</td> <td>30</td> </tr> </tbody> </table>	Safety items	Yr 2011	Yr 2012	Mine shoe	264	302	Gumboots	67	93	Ear plug	35	92	Dust Mask	632	896	Torch cell	396	175	Helmet	69	30
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(Signature)

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Annexure-I

(XI)	A Separate environmental cell with suitable qualified technical personnel to carry out various functions should be setup under the control of senior executive who will report directly to head of the organization.	Environmental cell established with technical person. 1.-General Manager, Block B Project. 2.-Staff officer (Civil), Block B Project 3.-Sr.M/Nodal officer (Env.), Block B Project. 4.-Forest Supervisor, Block B Project.
(XII)	The fund earmarked for environmental 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 regional office Bhopal.	The provision of fund is given in the EMP .The mine closure plan has been approved and a separate fund has been kept for environmental activities.
(XIII)	A copy of environmental clearance letter shall be marked to concern panchayat / local NGO if any from whom any suggestion /representation has been received while processing the proposal.	Complied
(XIV)	State pollution control board shall display a copy of the clearance letter at the regional office district industry center and collector office/Tahsildar office for 30 days.	Complied
(XV)	The Project authorities shall advertise at least in two local newspapers widely circulated around the project one of which shall be in the vernacular language of the locality concern within seven days of the clearance letter informing that the project has been accorded environmental clearance. The compliance status shall be uploaded by the project authorities in their website for public domain.	Already published on 1-SAMAY dt 01/07/09 2-Dainik Bhaskardt 01/07/09

(Signature)