

Northern Coalfields Limited (A Mini Ratna Company) Bina Extn. Project P.O. : Bina Project Distt : SONEBHADRA (U.P.)- 231 220			Office of the General Manager Tel. : 05446- 276279 (O) Fax. : 05446- 276274(O), 07805- 256105 Website : www.ncl.nic.in e-mail : cgmбина@yahoo.com	
 ISO 9001	 ISO 14001		 OHSAS 18001	 0008 A2

No: B/Env./MoEF/14/26

Dated 03/04.02.2014

To,

Addl. Director (S),
 Ministry of Env. & Forest, Regional Office (Central Region)
 5th Floor, Kendriya Bhawan, Sector - H , Aliganj, Lucknow- 226 024

Addl. Director (S),
 Ministry of Env. & Forest, Regional Office (Western Region)
 Kendriya Paryavaran Bhawan, Link Road NO: 3, E/5, Ravi shankar Nagar, Bhopal-462 016

Sub :- Submission of six monthly compliance report from 01 April '13 to 30 Sept.'13 regarding.

EC Letter No: J-11015/29/2004-IA.II(M) dated 02.08.06 for 6.00 MTPA PROJECT CODE- UP-12-205-2006, Under expansion for 7.5 MTPA for peak production EAC on 08.01.2013, 03.10.13 & 21.01.2014.

Dear Sir,

Please find enclosed herewith a copy of six monthly compliance report for the period from 01 April'13 to 30 Sept.'13 of Bina Extn. Project (Production capacity 6.00 MTPA under expansion to 7.5 MTPA for peak production capacity) of M/s NORTHERN COALFIELDS LIMITED, SINGRAULI. A soft copy of the report is also being sent through e-mail.

This is for kind information and needful action please.

Yours faithfully

Encls.: Part-I Data sheet
 Compliance of conditions

General Manager
Bina Extn. Project.

CC:- **GM (Env.) - NCL** for information please

Northern Coalfields Limited (A Mini Ratna Company) Bina Extn. Project P.O. : Bina Project Distt :SONEBHADRA (U.P.)- 231 220			Office of the General Manager Tel. : 05446- 276279 (O) Fax. : 05446- 276274(O), 07805- 256105 Website : www.ncl.nic.in e-mail : cgbina@yahoo.com	
 ISO 9001	 ISO 14001		 OHSAS 18001	 0008 A2

Guidelines for submission of six monthly compliance report

1. The compliance report should clearly indicate the name of the project, the clearance letter no., the Project code (as mentioned above) and the time period as given below.
2. In order to maintain a uniform order, it is desired that the compliance status in this reports should be given condition-wise in tabular form as per format given below.
3. The compliance of each conditions should be self explanatory, meaningful and to the point. It should be support by figure/data in brief. The analysis data for air and water pollution parameters should only be given in the form of statistical interpretations. Similarly, the occupational health surveillance report should be analyzed at your own level and only the results should be indicated in the compliance report. The green belt development should include the number of survival plants and coverage of the area in percentage. The words like complied/shall be complied/already reported as complied should be avoided.
4. No annexure, in that so ever form, should be attached with the compliance report.

Format for filling up compliance report

Name of the Project: BINA EXTN. PROJECT, Project Code: UP-12-205-2006

Clearance letter No.: J-11015/29/2004-IA. II(M) Dated 02.08.06/07.12.06
(Under expansion for 7.5 MTPA for peak production EAC on 08.01.2013, 03.10.13 & 21.01.2014)

Period of Compliance Report: 01 April'13 to 30 Sept.'13.

**MINISTRY OF ENVIRONMENT & FOREST
REGIONAL OFFICE, LUCKNOW
MONITORING REPORT
PART - I**

DATA SHEET

Date: 31.01.2014

01.	Project type : River valley / Mining Industry / Thermal / Nuclear / Others (specify)	OPEN CAST COAL MINE
02.	Name of the Project	BINA EXTENSION PROJECT - 06.00 MTPA
03.	Clearance letter No. and date	J-11015/29/2004-IA.II(M), dtd: 02.08.2006 & 07.12.06.
04.	Location : District : State(s) : Latitude & Longitude :	Bina (Extn.) Project, P.O. Bina Project SONEBHADRA UTTER PRADESH Latitude :- 24° 09' to 24° 11' 22" N Longitude :- 82° 44' to 82° 45' 25" E
05.	Address for correspondence :- (a) Address of concerned Project Chief Engineer/General Manager (with PIN Code & Telephone No / Telex / Fax Nos.) :	CHIEF GENERAL MANAGER NORTHERN COALFIELDS LIMITED AT & P.O. BINA PROJECT DT: SONEBHADRA (U.P.), PIN : 231 220 TEL. 05446 - 276279 FAX : 05446 - 276274
	(b) Address of Executive Project Manager / Engineer	General .Manager- Bina Extn. Mine Sr. Mgr. (Env.) AT & P.O. BINA PROJECT DT: SONEBHADRA (U.P.), PIN : 231 220
06.	Salient features of the Project :	- Total mineable reserve- 123.94 MT - Mine Lease Area- 1798 ha. Total cost of Project- Rs 168.97 Crs. - Stripping ratio - 5.04m3/tonnes (Average)
07.	Break up of the Project area : (a) Existing land for Bina Project:	Bina Project -1284 Ha. existing total in UP
	(b) Others : Additional land for Bina Extn.	Forest Land :- 378.935 Ha (M.P. state) 21.61 Ha (U.P. State) Tenancy :- 16.451 Ha (M.P.) Govt. Land :- <u>28.223 Ha (M.P.)</u> Total <u>445.219 Ha additional land.</u>

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08.	<p>Break up of Project affected population with enumeration of those losing houses / dwelling units only. Agricultural land only both dwelling units and agricultural land and land less labourers / artisans</p> <p>(a) SC / ST / Adivasis: (b) Others : (Please indicate whether these figures based on any scientific and survey carried out of provisional figures. If a survey carried out, give details & year of survey :</p>	<p>SC - 32 } House only :- ST - 00 } 38 Others - 06 }</p> <p>SC - 00 } Land only :- ST - 13 } 13 Others - 00 }</p> <p>SC - 00 } Land & House:- ST - 00 } 00 Others - 00 }</p>
09.	<p>Financial details :</p> <p>(a) Project cost as originally planned and subsequent revised estimate & the year of price reference</p> <p>(b) Allocation made for Environmental Management plans</p> <p>(c) Internal rate of return and year of assessment</p> <p>(d) Whether (c) includes on the cost of management as shown in (b) above</p> <p>(e) Actual expenditure incurred on the Project so far</p> <p>(f) Actual expenditure incurred on the Environmental Management so far</p>	<p>-> Rs.168.97 Crores (2006)</p> <p>-> Rs 27.08 Crores (2006)</p> <p>-> 6.10% (at 100% production)</p> <p>-> Yes</p> <p>-> Rs 472.015 Crs on Bina + Bina Extn. till 31.03.13. (Rs 16.20 lakhs as lease rent till 2011.12)</p> <p>-> Rs 1.8461 Crores in 2012-13 (total: Rs 20.2876 Crores)</p>
10.	<p>Forest Land requirement :</p> <p>(a) The status of approval for diversion of Forest land for non forestry use</p> <p>(b) The status of compensatory afforestation</p> <p>(c) The status of clear felling</p> <p>(d) Comments on the viability & sustainability of compensatory afforestation. The afforestation programme in light of actual field experience so far</p>	<p>21.61 Ha (U.P. State) Stage-II clearance granted vide letter No. 8-B/U.P./05/06/2004/F.C.-1943, dtd: 31.03.05. G.O. issued by U.P. Govt. & trees enumeration work completed. <u>Tree felling & land hand over work is pending.</u> Rs.3.00 lakh deposited with DFO, Renukoot as Marking & counting of trees to be felled on 21.61 Ha on 13.9.06 & 27.3.08.</p> <p>378.935 Ha. (M.P.State) Stage - II clearance granted vide letter No. 8-58/2005-FC, dtd: 13.08.07. G.O. issued by M.P.Govt. Boundary demarcation by M.P. forest deptt. completed. After tree felling in 200 Ha. forest land, this land has been handed over to Project.</p> <p>(i) Cost of C.A. Rs.18,05,645.00 deposited with DFO, Renukut on 28.09.05 (ii) Cost of C.A. Rs.5,23,02,000.00 deposited with DFO, Sidhi in Dec., 2006 In M.P. 200 ha. completed & handed over & the felling work in remaining 179 ha. started. In U.P. the tree felling work not started as yet.</p>

11.	The status of clear felling in non forest area (such as submergence area of Reservoir, approach roads), if any with quantitative information	As above
12.	Status of construction : (a) Date of commencement (Actual and / or Planned) (b) The date of completion	22nd November, 2006 7th year from the date commencement.
13.	Reasons for delay if the Project is yet to start	N.A.
14.	Point wise report regarding implementation of environmental safeguards as stipulated in clearance letter mentioned at Sl. No. 3	Enclosed as at Annexure "B"
15.	Details of correspondence with Project authorities for obtaining action plans / information on status of compliance to safeguards (other than the routine letters for logistic support for site visits). (the first monitoring report may contain the details of all the letters issued so far, but the later reports may cover only the letter issued subsequently) Date _____ Letter from Regional Office _____ Date _____ Reply by Project Authority	
	17.04.13 No. J-11015/49/2011-IA.II(M) 30.04.13 B/Env./EC6-7.5MTPA/13/79 04.12.13 No. IV/ENV./UP/MINE-12/205/2006/552 05.12.13 B/ ENV./ MOEF/ 13/ 217	

GENERAL MANAGER
BINA EXTN. PROJECT

Point wise compliance of environmental clearance conditions

Annexure “B”

Sl. No.	CONDITIONS:	COMPLIANCE STATUS
(A)	Specific conditions :	
(i)	No mining shall be carried out in the forest land, until forestry clearance is obtained	Stage - II Forestry Clearance granted vide letter No. 8-58/2005-FC, dated: 13.08.07. & G.O. issued by M.P. Govt. for 378.935 ha. in MP State & Stage-II clearance granted vide letter No. 8-B/U.P./05/11/2004/F.C. dated: 01.06.2006. G.O. issued by U.P. Govt. for 21.61 ha. land in U.P.state. Copies of the letter enclosed as Annexure-A.
(ii)	All the conditions stipulated by SPCB in their NOC shall be effectively implemented	All the conditions in NOC letter Implemented & a copy of compliance letter dated 22.11.05 is attached as Annexure – B.
(iii)	Mining operations during the balance life of mine shall be carried out only in the additional lease area of 449 ha in the Bina Extension Project.	Mining operation during balance life of mine will be carried out only in the additional 449 ha. area in Bina Extn. Project.
(iv)	No OB generated from the Bina Extension Project shall be dumped in the existing external OB dump and no new external OB dump shall be created for Extension Project. OB generated from additional lease area of 449 Ha shall be completely backfilled in the de-coaled area.	This is being practiced & will be complied during life of the Project. No new external OB dump will be created for Extension Project & OB generated from additional lease area of 449 ha is being completely backfilled in the de-coaled area.
(v)	Monitoring and management of existing reclaimed dump sites should continue until the vegetation becomes self-sustaining. Compliance should be submitted to the Ministry of Environment & Forest and its Regional Office located at Bhopal on yearly basis	Existing reclaimed dump sites are regularly monitored by the management.
(vi)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. the drains should be regularly de-silted and maintained properly Garland drains (size, gradient and length) and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump	Catch drains (total length 6500 running meters & 3 Nos. siltation ponds one near GM office (area 10 ha) (this siltation pond has been cleaned completely of all silts at a cost Rs 28 lakhs) & other (area 4 ha) in south section at project site have already been constructed for Bina Mine. One extra recharge lagoon near old weigh bridge created for reuse of treated water by outsourcing agency & for ground water recharge. All the garland drains, catch drains were cleaned in 2013-14.

	capacity should also provided adequate retention period to allow proper setting of silt material	Sump, Intermediate Sump of adequate capacity are available and in use. Capacity of sump will be increased as per make of water & for proper settling of TSS. Photos of siltation pond & garland drain are enclosed as Annexure-C.
(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 rainfall data	The dimensions of retaining walls (bottom width 2.5 m, top width 0.5 m, height 3.0 m & depth below ground 1.0 m) at toe of the OB dumps is based on the rainfall data. 60 RM of retaining walls (total 8500 RM) & 330 sq.mt. of gabions walls (bottom width 2.5 m, top width 1.0 m & height 4.0 m were made (total 3300 sq.mt.) constructed in 2012-13. Photos of retaining walls & gabions walls are enclosed as Annexure-D.
(viii)	Crushers at CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.	Crusher is provided with mist spraying system & Dust extraction & ventilation system. All belt conveyors are closed & water spraying arrangements at transfer points. 236 nos. of high efficiency bag filters have been installed at DSP. A study has been proposed to assess the effectiveness of the present system.
(ix)	Drills should be wet operated	Drills are provided with dust extractor, dust guards & dust collectors.
(x)	Controlled blasting should be 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 should be implemented	Controlled blasting is being practiced with the use of delay detonators & blasting operation is being carried out during 12.00 to 2.00 PM only.
(xi)	A progressive afforestation plan shall be implemented covering a total area of 1064.03 Ha which includes reclaimed external OB dump (50.40 Ha), backfilled area (663 Ha) along ML boundary along roads and infrastructure and its closure (163 Ha), green belt and along vacant land (187.63 Ha) by planting native species in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2500 plants per Ha.	All the 07 nos. external OB Dumps on 50.40 ha. area are already fully reclaimed. As and when final heights of remaining internal dumps (at present on 294.24 ha.) are achieved, they are reclaimed in phases. Green belt on 141.88 ha. area with 3.66 lacs plants has been developed, along all infrastructures, where space is available. Photos of reclaimed OB dump sites are enclosed as Annexure-E.
(xii)	Of the excavated area, an area of 663 Ha. shall be backfilled and reclaimed with plantation and the balance 48.97 Ha of the decoaled void shall be converted into a water	All the reclamation and plantation work is being done by U P Forest / M P Van Nigam. Density of plantation in OB is 3500 nos./ha and in Plain area is 2500 nos. /ha. At the end

	reservoir, the higher benches of which shall be gently sloped and stabilised by plantation / afforestation by planting native species in consultation with the local DFO / agriculture Department. The density of the trees should be around 2500 plants per Ha.	of Mine, a water body will be created on 48.97 ha. as given under the Env. Conditions. reclamation status External OBD - 5.64 lacs plants on area 50.4 ha. Internal OBD - 24.82 lacs plants on area 294.24 ha.
(xiii)	The company shall obtain approval of CGWA / CGWB Regional Office for use of ground water if any, for mining operations. Sanction of the competent authority shall be obtained for use of water from the integrated Water Scheme of the G.B. Pant Sagar.	Ground water clearance obtained from Central Ground Water Authority on 19.01.04 vide 21-4/CGWA/03-92. (copy enclosed as Annexure-F) Sanction of competent authority obtained for use of water.
(xiv)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.	(1)Quality of ground water being monitoring regularly by CMPDIL. (Latest monitoring report up to Sept.'13 is enclosed as Annexure-G). (2) Level of ground water being monitored at open wells by CMPDIL (Range 2.20 to 20.17M) (3) Site selection for construction of piezo meter completed. Site clearance & design of pizometer approved by Regional Director of CGWB, Bhopal on 14.02.08 vide letter No: 1-8/NCR./TS. The work of construction is under progress.
(xv)	The company shall put up artificial ground water recharge measures for augmentation of ground water resource. The Project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine	Two numbers of large size ponds for ground water recharge have been made. One at mine and other is near GM Office. Rain water harvesting arrangement at GM office & Guest house building are made. (Photos enclosed as Annexure- H) This is being complied with.
(xvi)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP waste water	STP 2.5 MLD capacity is working in colony since 31.12.2000. ETP of 1296 M ³ /hr. capacity for CHP, Mine, Workshop is working since 30.06.99. the same will be used for Bina (Extn.) Production capacity 7.5 mtpa as additional capacity is available. (Photos of ETP & STP are enclosed as Annexure- I).

Sl. No.	CONDITIONS:	
(A)	Specific conditions :	
(xvii)	Besides 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 diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of two years and the results reported to this Ministry and to DGMS	Regular health check up in the form of IME/PME is being done for all workers employed in the mine. If any person detected occupational disease or hearing impairment, 10% of them will be sent to NIOH, Ahmedabad. During 2013 total 409 nos. of employees were undergone PME. (Detail report enclosed). In the month of Nov.13 a health camp was organized & 175 persons from nearby villages were examined by a medical board of doctors from state govt. & NCL. Medical examinations of 618 contactual workesr of Bina project was undergone at NSC in 2012.
(xviii)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its Regional Office at Bhopal	Digital processing of the entire lease area using remote sensing techniques is done every year and its report is sent to MoEF, New Delhi, Regional Offices at Bhopal & Lucknow. Latest report for the year 2012 sent vide No: 4715 dated 10.05.13. (Copy enlaced as Annexure-J).
(xix)	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests within one year for approval	The mine closure plan with adequate fund provisions (Rs 131.254 Crores) duly approved by NCL board have been submitted to MOC,MOEF, New Delhi & 1 copy each to MPPCB, UPPCB in April'12 .
(xx)	Consent to Operate shall be obtained before expanding mining operations.	Air & Water consents from UPPCB, Lucknow granted up to 31.12.13. Air & water consent from MPPCB, Bhopal is valid up to 31.01.13, renewal have been already applied.
(B)	General Conditions :	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests	Mining technology will not be changed without prior approval.
(ii)	No change in calendar plan including excavation, quantum of mineral coal and waste should made	Calendar plan of excavation will not be changed.
(iii)	Four ambient air quality monitoring stations should be established in the core zone as	05 Nos. ambient air quantity monitoring stations selected in consultation with SPCB.

	well as in the buffer zone for SPM, RPM, SO ₂ and Nox monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board	Monitoring at fortnightly interval is conducted on these stations. According to reports SPM ranges from 83-254, RPM 24-84, SO ₂ 10-20 & Nox 13-36 during July-Sept.13 period.
(iv)	Fugitive dust emission (SPM & RPM) from all the sources should be controlled regularly monitored and date recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) points should be provided and properly maintained	Fugitive dust is being controlled by 11 nos. of mobile water sprinklers & other dust suppressions arrangements. The air quality is regularly monitored at fortnightly interval.
(v)	Data on ambient air quality (SPM, RPM, SO ₂ & Nox) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board once in six months	Env. monitoring reports are quarterly submitted to MoEF/SPCB & all concerned. A copy is enclosed as Annexure- K
(vi)	Adequate measures 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	Noise monitoring is regularly done & found within limits. Ear Muffs / Ear Plugs are provided to workers wherever noise level is high.
(vii)	Industrial waste water (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E), dtd: 19th May, 1993 and 31st December, 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents	Industrial ETP for treating waste water from mine, CHP, Workshop is working from 30.06.99. Oil & grease trap is also functioning.
(viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded	Vehicles going out side are covered with tarpaulins. Vehicular emissions will be monitored.
(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	A small Environmental laboratory is set up at ETP for daily testing of PH, TSS, O/G, COD. Detailed monitoring / testing is done by RI - VI, CMPDIL Laboratory.
(x)	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and	Dust masks are provided and training on safety & health are given to all workers.

	<p>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</p>	<p>Periodical medical examination of all the employees being done at every 5 year interval. In 2013 PME for 409 nos. of employees undertaken. Detail report enclosed.</p>
(xi)	<p>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</p>	<p>Environment management cell is established at HQ as well as at Project level.</p>
(xii)	<p>The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to this Ministry and its Regional Office at Bhopal</p>	<p>This is given in 6 monthly reports</p>
(xiii)	<p>The Regional Officer of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / monitoring reports</p>	<p>Always being done</p>
(xiv)	<p>A copy of the environmental clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal</p>	<p>Copy of environmental clearance letter provided to all members of Public Hearing Committee including panchayat, local NGO.</p>
(xv)	<p>State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days</p>	<p>This is to be complied with by State Pollution Control Board.</p>
(xvi)	<p>The Project authorities should advertise at least in two local newspapers widely circulated around the Project, one of which shall be in the 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 clearance letter is available with the State Pollution Control Board and may also be seen at the web site of the Ministry of Environment & Forests at http://envfor.nic.in</p>	<p>The desired information had been published in two Hindi newspapers namely "Hindustan" - Varanasi & "Dainik Jagaran" on 07.05.07.</p>

GENERAL MANAGER

BINA EXTN. PROJECT