



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 &amp; OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

No: BINA/PJ/Env./Forest/FC /20/137

Date: 18/11/2020

To,  
APCCF (Land Management)/Nodal Officer(FC)  
Department of Forest  
Government of Madhya Pradesh

**Subject :-Compliance report of Stage-I FC for the "proposal for diversion of 353.764 ha. of forest land (instead of 390.264 ha. of forest land) in favour of M/s Northern Coalfields Limited, for Bina-Kakri Amalgamation Open Cast Coal Mining, under Forest Division and District Singrauli in the State of Madhya Pradesh.-regarding".**

**Ref No.:** Letter no. F. No 8-69/2018-FC Dt. 13.01.2020 of Dy. Inspector General of Forests (FC), MoEF&CC regarding Stage-I FC of 353.764 hectares of forest land of Bina- Kakri Open cast Coal Mining of NCL, Singrauli.

Dear Sir,

With reference to the above subject matter compliance report of conditions of Stage-I forest clearance is submitted as under:-

Point wise compliance of conditions stipulated in Stage-I Forestry clearance/In-Principle approval		
S. No.	Condition	Compliance by User Agency
i	Legal status of the diverted forest land shall remain unchanged.	Agreed.
ii	Compensatory afforestation over the degraded forest land of 353.764 ha. (twice in extent to the area of forest land proposed to be diverted (2 x 353.764 = 707.528 ha.) of degraded forest land shall be raised within a period of three years with effect from the date of issue of Stage-II clearance and maintained thereafter as per approved plan by the State Forest Department at the cost of the user agency;	An amount of Rs. 28,78,40,991 towards the cost of CA has been paid through e-portal.
iii	The copy of report of FSI, Nagpur regarding inability to redraw the proposal on the lines of analysis of Amelia Coal Block shall be submitted prior to Stage-II approval.	*This is to be complied by Forest Department, Madhya Pradesh.
iv	The revised KML file of 353.764 ha of the proposed forest land shall be uploaded on eportal which will be verified by the DSS team of FSI.	Revised KML file is attached.
v	The revised KML file of degraded forest land proposed for CA shall be uploaded on e-portal.	This is to be complied by Forest Department, Madhya Pradesh.

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

vi	The state Government shall furnish a certificate that the proposed CA land is free from encroachment and any encumbrance, and also that no plantation (under any scheme/programme) was taken up in any part of the proposed CA site in last ten years;	This is to be complied by Forest Department, Madhya Pradesh.
vii	The land identified for the purpose of CA shall be clearly depicted on a Survey of India toposheet of 1:50,000 scale;	The identified CA land has been depicted on Sol toposheets. (Copies enclosed as <b>Annexure 1.</b> )
viii	The User Agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years;	An amount of Rs. 28,78,40,991 towards the cost of CA has been paid through e-portal.
ix	The User Agency shall transfer the funds for the Net Present Value (NPV) for 353.764 ha. of forest land to be diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No. 202/1995 and the guidelines issued by this Ministry vide its letter No. 5-3/2007-FC dated 05.02.2009 through online portal of CAMPA account of the State Concerned;	An amount of Rs. 28,40,72,492.00 against NPV has been deposited through e-portal.
x	Additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India on receipt of the report from the Expert Committee, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect;	Agreed.  An undertaking in this regard is enclosed as <b>Annexure 2.</b>
xi	The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;	After Stage-II approval, as per the demand of DFO Singrauli, Payment will be made.
xii	The user agency shall obtain the Environment Clearance as per the provisions of the Environment (Protection) Act, 1986, if required;	EC of 7.5 MT has already obtained for Bina Extension Project vide letter no:- 11015/49/2011-IA.II (M) dated 06.08. 2006.



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र..)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

		Copy Enclosed as <b>Annexure-3.</b>
xiii	<p>Following activities shall be undertaken by the user agency under the supervision of the State Forest Department at the project cost and appropriate cost of the plan / scheme shall be deposited in CAMPA account through online E-portal;</p> <p>a. A plan containing appropriate mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented;</p> <p>b. Planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease to arrest soil erosion;</p> <p>c. Construction of check dams, retention /toe walls to arrest sliding down of the excavated material along the contour;</p> <p>d. Stabilize the overburden dumps by appropriate grading/benching so as to ensure that that angles of repose at any given place is less than 28<sup>o</sup>; and</p> <p>e. Strict adherence to the prescribed top soil management;</p>	<p>a. Scheme for mitigative measures to minimize soil erosion and choking of streams through construction of gabion wall is prepared and enclosed at <b>Annexure-A.</b></p> <p>b. Scheme regarding plantation of drought hardy plant species and sowing of seeds in appropriate area within the mining lease to arrest soil erosion is prepared and enclosed at <b>Annexure-B.</b></p> <p>c. Scheme related to construction of check dam is prepared and enclosed at <b>Annexure-C.</b></p> <p>d. Mining operation is carried out in such way that the angles of repose is settled less than 28 degree at any given place.</p> <p>e. Agreed</p>
xiv	<p>All the funds received from the User Agency under the project shall be transferred/deposited to CAMPA fund only through online e-portal (<a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a>);</p>	<p>All the funds has been deposited online through e-portal.</p>
xv	<p>The user agency shall prepare a land surrender schedule for surrender of the mined out and biologically reclaimed forest land in accordance with the existing mine plan and progressive mine closure plan and submit an undertaking that mined out and biologically reclaimed forest land will be surrendered to the State Forest Department as per this schedule;</p>	<p>An Undertaking for surrender of the mined out and biologically reclaimed forest land to the state forest department as per this schedule enclosed as <b>Annexure-4.</b></p>
xvi	<p>User agency in consultation with the State Forest Department shall create and maintain alternate habitat/ home for the avifauna, whose nesting</p>	<p>29nos. bird nest made out of eco-friendly materials have been placed in different areas viz. colonies, forest areas and adjoining the</p>

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुबंधी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

	trees are to be cleared in this project. Bird nests artificially made out of eco-friendly materials shall be used in the area, including forest area and human settlements, adjoining the forest area being diverted for the project;	forest area being diverted for the project. Photographs are enclosed as <b>Annexure-5</b> .
xvii	User agency either himself or through the State Forest Department shall undertake fencing, protection and afforestation of the safety zone area at the project cost;	As of now, the forest land is under the control of Singrauli Division, MP. No construction, fencing and pillaring can be done before the handover of forest land by the Singrauli Forest Division. The handover of forest land is done after the Stage-II approval of forest land.  However, the marking of the safety zone area has been done by painting of latitude and longitude (GPS Coordinates) of the safety zone. The photographs for the same are enclosed as <b>Annexure-5</b> .
xviii	User agency either himself or through the State Forest Department shall undertake afforestation on degraded forest land, one and half time in extent to the area used for safety zone;	Agreed. Undertaking regarding this attached as <b>Annexure-6</b> .
xix	Period of diversion of the said forest land under this approval shall be for a period coterminous with the period of the mining lease proposed to be granted under the Mines and Minerals (Development and Regulation) Act, 1957, and the Rules framed there-under as amended;	Agreed.
xx	User agency either itself or through the State Forest Department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.4), if any, located in the area within 100 meters from outer perimeter of the mining lease;	In and around the Bina- Kakri Amalgamation mine Kakri, Krishnashila and Dudhichua OC mines are in operation. Therefore, no such degraded open forests (having crown density less than 0.4) located in the area within 100 meters from outer perimeter of the mining lease for Gap planting and soil & moisture conservation activities to restock and rejuvenate.
xxi	The User Agency shall prepare a list of existing village tanks and other water bodies with GPS co-ordinates located within five km. from the mine lease boundary. This list is to be duly verified by the concerned Divisional Forest	Detailed Plan prepared in consultation with Forest Department for de-silting the pond is enclosed as <b>Annexure 7</b> .



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

	Officer. The User Agency shall regularly undertake de-silting of these village tanks and other water bodies so as to mitigate the impact of siltation of such tanks/water bodies. A detailed plan for de-silting of identified ponds and water bodies to be prepared in consultation with forest department and shall be submitted to MoEF&CC before Stage-II approval;	
xxii	The User Agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones;	Coal India Ltd. has separate R&R policy. NCL being a Subsidiary of CIL, R&R policy of Coal India Limited is being implemented. R&R Plan is enclosed as <b>Annexure-8</b> .
xxiii	User agency shall undertake mining in a phased manner and take due care for reclamation of the mined over area. The concurrent reclamation plan shall be executed by the User Agency as per the approved mining plan/scheme and an annual report on implementation thereof shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, Government of Madhya Pradesh and the Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Bhopal. If it is found from the annual report that the activities indicated in the concurrent reclamation plan are not being executed by the user agency, the Nodal Officer or the Addl. Principal Chief Conservator of Forests (Central) may direct that the mining activities to be suspended till such time, such reclamation activities are satisfactorily executed;	It will be executed as per the approved Mine Closure Plan.  An Undertaking in this regard is enclosed in <b>Annexure 9</b>
xxiv	No labour camp shall be established on the forest land;	Agreed
xxv	User agency shall provide firewood preferably alternate fuel to the labourers and the staff working at the site so as to avoid any damage and pressure on the adjacent forest areas;	LPG gas connection is provided to all the workers of the mine. Therefore, firewood is not consumed and there is no damage and pressure on the adjacent forest areas. An Undertaking in this regard is enclosed as

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

		Annexure-10.
xxvi	Boundary of the mining lease and safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing, distance from pillar to pillar and GPS co-ordinates;	As of now, the forest land is under the control of Singrauli Division, MP. No construction, fencing and pillaring can be done before the handover of forest land by the Singrauli Forest Division. The handover of forest land is done after the Stage II approval of forest land. However, the marking of the safety zone area has been done by painting of latitude and longitude (GPS Coordinates) of the safety zone. After Stage-II approval and hand over of forest land by Singrauli Forest Division, boundary of the mining lease and safety zone shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing, distance from pillar to pillar and GPS co-ordinates
xxvii	Forest land shall not be used for any purpose other than that specified in the proposal;	Agreed and will be followed strictly. An undertaking in this regard is enclosed as <b>Annexure-11.</b>
xxviii	State Government shall complete settlement of rights, in term of the Scheduled Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land to be diverted and submit the documentary evidence as prescribed by this Ministry in it's letter No. 11-9/1998-FC (pt.) dated 3rd August 2009 read with 05.07.2013, in support thereof;	No forest dwellers are staying in the 353.764 Ha. Forest land proposed for diversion. Certificate of settlement of rights under the Schedule Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 issued by the Collector, Singrauli is enclosed as <b>Annexure-12.</b>
xxix	The details of such number of trees to be felled on forest as well as non-forest area in the lease and plantation of double the number of trees in the lease area or outside will be provided to the concerned Divisional Forest Office, and the Concerned Regional Office of the Ministry who will monitor such plantation efforts by the company;	Agreed and will be complied.  As per tree enumeration report of Singrauli Forest Division, total <b>245462</b> nos. trees are standing on 353.764 forest land. Double no. of trees (491000 nos.) will be planted through Madhya Pradesh Rajya Van Vikas Nigam in phased manner on the backfilled areas. An undertaking in this regard is enclosed as <b>Annexure-13.</b>



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

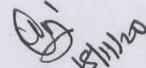
पोस्ट- बीना परियोजना, जिला-सोनभद्र(उप्र.)पिन-23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

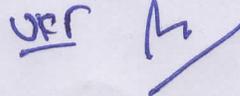
Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

xxx	The User Agency shall submit the annual self - compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year;	Agreed and will be complied.  An undertaking in this regard is enclosed as <b>Annexure-14</b> .
xxxii	The Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the para 1.21 of comprehensive guidelines issued vide this Ministry F. No.5-2/2017-FC dated 28th March, 2019;	Agreed and conditions will be strictly complied.
xxxiii	Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife shall be carried with by the State Government and user agency;	Agreed and will be complied.
xxxiiii	The State Government and user agency shall ensure compliance to all conditions stipulated in the Stage-I approval for which undertakings have been obtained from the user agency and also the provisions of the all Acts, Rules, Regulations and Guidelines, relevant Hon'ble Court Order (S) and NGT Order (S), if any, pertaining to this project for the time being in force, as applicable to the project;	Agreed and will be complied.
xxxiv	The complete compliance report with undertakings and plans/schemes will be <b>uploaded on the web-portal</b> ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> );	Agreed and will be complied.

Copy to:

1. DFO, Singrauli
2. GM (Forest), NCL , Singrauli

  
(E.P. Godse)  
Area General Manager  
Bina Extn Project  
Northern Coalfields Limited, Bina Area



नॉर्दर्न कोलफील्ड्स लिमिटेड  
(मिनी रत्न कंपनी)  
(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited  
(A Miniratna Company)  
(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220  
Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgm-bin.ncl@coalindia.in](mailto:cgm-bin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

## UNDERTAKING

Annexure- 2

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020. In compliance of the condition (x) given in FC Stage-1 approval, I hereby agree and undertake to pay additional amount of the NPV of the diverted forest land, if any, becoming due after finalization of the same by the Hon'ble Supreme Court of India.

Place: Bina Extn Project  
Date: 18/11/2020

एल. पी. गोडसे  
एरिया जनरल म्यानेजर, बीना क्षेत्र  
Bina Extn. Project  
Northern Coalfields Limited  
L. P. Godse  
Area General Manager, Bina Area

No. J-11015/49/2011-IA.II (M)  
Government of India  
Ministry of Environment, Forests & Climate Change

Indira Paryavaran Bhawan,  
Jor Bagh Road,  
New Delhi-110003  
Dated: 6<sup>th</sup> August, 2014

To,

Director (Tech/P &P)  
M/s Northern Coalfields Limited,  
PO: Singrauli  
Distt. Singrauli,  
MP-486889

**Sub. : Bina OCP expansion of coal mining project (6 MTPA to 7.5 MTPA Peak in an area of 1798 ha; Latitudes 24<sup>0</sup>09'30" to 24<sup>0</sup>11'22" N & Longitude 82<sup>0</sup>44'30" to 82<sup>0</sup> 45' 25"E) of M/s Northern Coalfields Limited in village Bina/Karbari, Tehsil Dudhi (UP)/ Singrauli (MP), Singrauli Coalfield, States Sonebhadra (U.P.)/ Singrauli (M.P.) – Environment Clearance - reg.**

Sir:

This is with reference to letter no. NCL/SGR/Env./12/3852 dated 27.12.2012 requesting Ministry for Environment Clearance. Ministry vide letter of even no. granted TOR for the project on 30.11.2011. Reference is also invited to the letter no NCL/SGR/Env/13/4248 dated 23.07.2013, 09.11.2013, 03.12.2013, 21.02.2014; 01.03.2014 and 18.07.2014 for environmental clearance on the above-mentioned subject.

2. The Environment, Forests & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance for **Bina OCP expansion of coal mining project (6 MTPA to 7.5 MTPA Peak in an area of 1798 ha; Latitudes 24<sup>0</sup>09'30" to 24<sup>0</sup>11'22" N & Longitude 82<sup>0</sup>44'30" to 82<sup>0</sup> 45' 25"E) of M/s Northern Coalfields Limited in village Bina/Karbari, Tehsil Dudhi (UP)/ Singrauli (MP), Singrauli Coalfield, States Sonebhadra (U.P.)/ Singrauli (M.P.)**. The proposal was considered in the 65<sup>th</sup> EAC held on 8<sup>th</sup> - 9<sup>th</sup> January 2013; 2<sup>nd</sup> EAC held on 3 - 4<sup>th</sup> October, 2013 and reconsidered in the 9<sup>th</sup> EAC meeting held on 20<sup>th</sup> - 21<sup>st</sup> January, 2014. The proponent has informed that:

- i. It was noted that EC was granted for Bina Opencast vide letter no. J-11015/29/2004-IA-II(M) dated 02.08.2006 & amendment dated 07.12.2006 for 6 MTPA.
- ii. The present proposal is for increase in production from 6.0 to 7.5 MTPA with the calendar programme remaining same. The increase of production by 25% i.e. inclusion of peak capacity does not involve in any way increase of leasehold area, change in technology, change in product mix. It is not a case of lease renewal.
- iii. The land usage of the project will be as follows:

**Pre- Mining**

1	Forest land	1257.00 Ha
2	Agricultural land (Tenancy Land)	513.00 Ha
3	Govt. Land	28.00 Ha
	Total	1798.00 Ha

## Post Mining

SI No	Land Use	Total Land Ha	Post mining land use in Ha			
			Plantation/Afforestation	Water Body	Public use	Undisturbed Land
1	Top Soil Dump		Not estimated separately. Included in OB dump.			
2	External Waste dump(OB Dump)	50.40	50.40	-	-	-
3	Excavation area (backfill +void)	814.00	663.00	48.97 + 102.03 = 151.0	-	-
4	Roads	20.00	-	-	20.00	-
5	Built-up Area	430.00	163.00	-	267.00	-
6	Afforestation (Green Belt)	187.63	187.63	-	-	-
7	Undisturbed Area	295.97	-	-	-	295.97
	<b>Total</b>	<b>1798.00</b>	<b>1064.03</b>	<b>151.00</b>	<b>287.00</b>	<b>295.97</b>

- iv. The application in Form I was submitted for consideration of increase in capacity by 25% for Peak capacity. The TOR was issued on 30.11.2011. Increase in production by inclusion of Peak Capacity (6.0 to 7.5 MTPA).The increase in production from 6.0 to 7.5 MTPA is possible due to favorable geo-mining conditions, through outsourcing and by increasing the number of working days to exploit balance reserves in existing Chandela Geological Block.
- v. Bina Extension Opencast Project is surrounded by mechanised opencast coal projects of NCL, vizKakri, Khadia, Dudhichua, Jayant, Jhingurdah and Krishnshila. Vindhyaachal STPS, Singrauli STPS of NTPC, Anpara STPS of UPRVUNL and Renusagar TPS of HINDALCO are the power plants located in the Buffer zone of the Project. No other major industry located in the study area.
- vi. The main coal linkage is with Anpara & Obra TPS. Bina Extension Project (6.0 MTPA) linked to Obra TPS (1550 MW), Anpara TPS (1630MW) and other Northern India Thermal power stations. The project is amalgamated in the future with Kakri Opencast Coalmine Project.
- vii. The Project Report has been approved by M/s NCL Board on 05.11.2011. 180 ha land has already been acquired and the Gazette notification of same is awaited.
- viii. It was informed that a lagoon has been created for arresting the silt load from the project and only the clear water is channeled out of the ML. It was stated that Bina OCP has deshelling plant.
- ix. Considering the mining and geological conditions, Bina (Extn) opencast mine was proposed to be advanced in two sections namely north and south. Project is designed to achieve peak production by existing mechanized opencast method deploying Dragline, Shovel and Dumper combination.
- x. The proposed enhanced coal production for peak capacity of 7.5 MTPA is to meet the increased demand of power grade coal. The mining plan envisaged the increase in coal production through increasing efficiency by augmenting capacity through outsourcing and increase in planned no. of working days from 330 to 365.
- xi. There will be no extra land required for mining and there is no change in calendar plan for production. No extra manpower required. No additional HEMMS/equipments required. No extra water required from outside source. The impacts have been studied for 7.5 MTPA and the ambient air, water & noise pollution is within permissible limits. All the land has been acquired. Forest land in existing Bina 4.5 MTPA is 853 ha and Bina Extension project of 6 MTPA is 404 Ha).
- xii. No additional land is required for peak production of 7.50 MTPA. Of the total ML area of 1798 ha, 814 ha is quarry area, 65 ha is for external dump, 20 ha is for road, 163 ha is for

- infrastructure like workshop, office etc., 63 ha is for railway siding, 204 ha is for colony, 71 ha is for green belt, 398 ha is Vacant/waste land. OB removal is by using dragline and shovel-dumper combination.
- xiii. The ultimate working depth is 250m. The grade of coal is E, Stripping Ratio is 5.04 m<sup>3</sup>/t . There are Turra Seam, Purewa Top Seam & Purewa Bottom Seam. An External OB dump in ha area with 8Mm<sup>3</sup> OB but in Bina expansion project there would be internal dump in 283 ha area with 625.04Mm<sup>3</sup> OB External dump already fully reclaimed. There will be no change in total OB quantity, dump area, final dump plan, dump height and dumping strategy due to increased peak production from 6 MTPA to 7.50 MTPA. Modalities for Technical & Biological reclamation will be same as mentioned in approved EMP (6.00 MTPA) of Bina Extn. OCP.
  - xiv. The OB dump plans of the NCL mines have been planned to accommodate maximum possible OB volume in internal OB dump and rest a small part in external OB dumps, so that land requirement for external OB dump is minimum for whole life of different projects. Detailed slope stability study has been carried out by BIT, MESRA, Ranchi. The recommended overall slope for dragline dump w.r.t. horizontal plane passing through toe of the dump should not exceed 360 and height of dragline dump w.r.t mine floor should not exceed 79 m for above recommended slope angle. The final void will be left in an area of 48.97 ha with 102.03 ha batter (151 ha). Final depth of water body would be 30m.
  - xv. The drainage of Tippa Jharianallah which joins the Gobind Ballabh Sagar.NoRiver passes through mining property. Pre-monsoon Water Levels vary from 6.00 to 14.10 m below ground level and Post-monsoon Water Levels vary from 1.09 to 5.02 m below ground level. Total water requirement of expansion project is 8150 m<sup>3</sup>/day (5650 m<sup>3</sup>/day is Industrial and 2500 m<sup>3</sup>/day domestic. Mine discharge is 24300m<sup>3</sup>/day. Water is drawn from Govind Ballabh Pant Sagar Reservoir and sanction of the U.P. State Govt. was obtained on 13.03.1979. Additional water requirement for the expansion project would be met form mine pit/recycled water.
  - xvi. As there is no additional land requirement, there is no additional Rehabilitation & Re-settlement required. The R&R of the 38 PAPs at 6.00 MTPA stage, has already completed. There are five villages namely Bansi, Jamshila, Barwani, Chanduar and Gharsari covered under CSR activities by Bina (Extn) Project.
  - xvii. **Cost:** The expenditure under CSR by Bina OCP for the year 2010-11 is Rs.73.40 lakhs and for the year 2011-12 is Rs.49.45 lakhs. Proposed CSR fund is Rs.41.44 Lakhs. Balance Life of the Project at 7.5 MTPA is 13-16 Years. NCL adopted a "Corporate Management Policy". Final Mine closure cost is Rs. 20513.85 Lakhs. Environmental Control Measures, the Capital cost is Rs. 2708.65 Lakhs and Recurring cost will be Rs. 4/T of coal. Capital Cost of the Project is Rs. 535.96 Crores as on August 2009.
  - xviii. The **life of mine** is 17 years from 2012-13.
  - xix. **Approvals:** Mining Plan for Peak coal production for Bina (Extn.) OCP (7.50 MTPA) was approved by NCL Board vide letter no. NCL/Board/08(146)/45 dated 19.04.2010.Copy of NOC for withdrawal of ground water by CGWB vide letter No. 21-4/CGWA/03-92 dated 19.01.2004. Forest land clearance from MOEF vide letter No. 8-58/2005-FC dated 13.08.2007. The coal transportation is by Railway through existing CHP and Railway siding in the project.
  - xx. **Wildlife issues:** There is no any ecological sensitive area such as Biosphere Reserve, National parks, Wildlife Sanctuaries, Elephant Reserve and migratory path of major wildlife species in the core area of Bina Extension OCP.
  - xxi. **Forestry clearance** has been obtained and copies of FC have been furnished to the Ministry. Of the total ML area of 1798, mining is being carried out in 1349 ha and the extension area is 449 ha. Of the total ML area of 1798 ha, 1257 ha is forestland (875 ha is in UP and 382 ha is in MP), 28 ha is Govt. land and 513 ha is tenancy land (Agriculture) (496 ha is in UP and 17 ha is in MP). 148 ha is waste land, 3 ha is surface body, 42 ha is Govt. Land. (541 Others), No Area falls outside mine lease.

Sl. No.	Stage-1 FC issued vide letter no. & date	Area in ha
1	F.No.8-58/2005-FC dated 13.08.2007	378.935
2	F.No B/UP/05/11/2004/FC dated 01.06.2008	21.61
3	Pre 1980	856.455
	Total	1257

- xxii. **Public Hearing:** The Public Hearing was held on 18.09.2012 (MP side) & 24.09.2012 (UP side). The issues raised during the public hearing were with regard to R&R and amenities to be provided in nearby village under community development, plantation of Trees for control of air pollution and arrangement for restricting flow of silt from Dumps, Electricity, Road, play ground & drinking water.
- xxiii. A representation received from all the resident of Bina regarding pollution due to transportation of coal inside residential area on Bina-Kurwai road, causing respiratory diseases among children and old people was also discussed. The copy of the representation was given to the Proponent for clarification and for providing mitigative measure.
3. The revised compliance report has submitted by RO, MOEF vide its letter no. IV/ENV/UP/MINE-11/187/2006/567 dated 11.12.2013. The proponent has submitted the following:
- In Bina OCP, the conditions of ETP, STP, CHP and Health survey issues were already complied as per the earlier compliance report of Regional Office, MOEF dated 18.07.2013.
  - The ETP and STP are functioning properly since more than 12 years.
  - The CHP is working as per its capacity.
  - The health study has been done for contractual workers and the local residents in Apr-July 2013 by NCL Medical Team and the State Govt. in November 2013
  - Regular health check up in the form of IME/PME is being one for all worker employed in the mine. During 2012 total 407 nos. of employees were undergone PME. The PME is being carried out every year for employees and no case of any occupational health disorder or abnormality was found. The Medical Board of health study was comprised of Dr. S. K. Dubey, MO, Robertsganj Distt. Hospital, Dr. Nandini De, CMO, NSC, Dr. S. Adhikari, Med. Supdt., Bina Hospital, Dr Neha Kumari, Sr. MO, NSC, Dr. Abhishek, Sr. MO, Kakri Dispensary, Dr. Rajat, Sr. MO, Bina Hospital was held in the month on November 2013.
  - A total 175 persons were examined in the ratio of 44.5 and 55.5 as male and female respectively. The impact of environmental pollution on the people in village was negligible with a few abnormalities detected as : Osteoarthritis/Backache-03; Increased blood sugar-05; Hypertension-04; URTI-16; Anaemia-02; Br. Asthma-01; Pterygium-01; Ch. Cough-02; Nystagmus-01; The medical study indicates that there is no significant impact on the health of people due to mining activities. In addition, the PAs also provided supplementary document for health study of the employees and contractual workers residing in nearby village of Bina Project.
  - Study indicated that the medical board examined 618 contractual workers of Bina Project. This study includes respiratory disorders, hearing impairment, deficiency in vision and the report of the study done in 2012. The medical study indicates that there is no significant impact on the health of people due to mining activities.
  - In the previous submitted certified compliance report vide specific condition, no (viii), therein it is already stated that the "Crusher has been provided with mist spraying system, dust extraction & ventilation system. All belt conveyors were found closed & water spraying arrangement has been found at transfer points. High efficiency bag filters has been installed". The CHP is in operation since 1992, ETP is in operation since 1999.
4. The MoEF, vide OM no J-11013/5/2010-IA.II(I) dated 10.06.2014 has decided to keep in abeyance until further orders of the OM dated 17 September, 2013 the extent it related to the re-imposition of moratorium in 8 CPA's till CPCB re-assess the CEPI taking into account all constituents of index as originally envisaged in 2009 subject to several stipulations.

5. **This is a violation case.** As per the Office Memorandum dated 12.12.2012 and 27.6.2013, issued by the Ministry of Environment and Forests, with regard to the consideration of proposals for ToR/Environment clearance/CRZ clearance involving violation of the Environment (Protection) Act, 1986/EIA notification, 2006/CRZ notification, 2011, the Environmental Clearance will be granted after the written commitment in the form of a formal resolution by the Board of Directors submitted to the MoEF to ensure that violations will not be repeated and the State Government concerned initiates credible action on the violation by invoking powers under Section 19 of the Environment (Protection) Act, 1986 for taking legal action under section 15 of the Act for the period for which the violation has taken place and evidence provided to the MoEF of the action taken. The Board's resolution has been received vide its letter no. B/Env./MoEF7.5/Board Resolution/14/401 dated 01.03.2014. As regards credible action, U.P. State Pollution Control Board, vide letter no. G44762/vidhi/Writ no. 1798/2014 dated 18.06.2014 Govt. has filed a complaint case under section 15/16 of Environment Protection Act, 1986, the Chief Judicial Magistrate's Court, Sonbhadra, U.P. vide case No. 1798/2014 filed on 06.06.2014.

6. The proposal was reconsidered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) and recommended in its 9<sup>th</sup> meeting held on 20<sup>th</sup> – 21<sup>st</sup> January, 2014 for granting Environmental Clearance. The Environment, Forests & Climate Change hereby accords environmental clearance for the above-mentioned **Bina OCP expansion of coal mining project (6 MTPA to 7.5 MTPA Peak in an area of 1798 ha; Latitudes 24°09'30" to 24°11'22" N & Longitude 82°44'30" to 82° 45' 25"E) of M/s Northern Coalfields Limited in village Bina/Karbari, Tehsil Dudhi (UP)/ Singrauli (MP), Singrauli Coalfield, States Sonbhadra (U.P.)/ Singrauli (M.P.)** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments thereto subject to the compliance of the terms and conditions mentioned below:

**A. Specific Conditions:**

- i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- ii. No mining operations shall be undertaken in the forestland until clearance has been obtained under the provisions of FC Act, 1980.
- iii. The water body (void) should be backfilled so that at the end of the mining there would be no water body and whole area will be reclaimed.
- iv. It was observed that the soil and water may be contaminated with Mercury. As a matter of abundant precaution, the EAC desired that decontamination measures should be taken to reduce the mercury pollution in the area. Indian Medical Association (IMA) should be engaged to ascertain the exact numbers of people/villagers affected with Mercury, if any.
- v. Fugitive emission is major problem. Adequate measures need to be taken so that the emissions are within the prescribed limit.
- vi. Monitoring the Ambient Air Quality should be carried out by including new parameters viz. PM<sub>10</sub> and PM<sub>2.5</sub>
- vii. Proponent should expeditiously take up the matter with the Coal India to create an Environment Cadre for future employment in Coal India and its subsidiaries.
- viii. Transportation of coal in pit by dumper. Surface to siding by tipper/conveyor, and rakes loading by pay loaders. Provision was by belt to washery and from washery to siding by tube conveyor and rakes loading through silo but the same is delayed.
- ix. The production shall be within the same Mining Lease area.
  - x. The OB shall be completely re-handled at the end of the mining.
  - xi. Final mine void depth will not be more than 40 m. The void area will be converted into waterbody. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.
- xii. Garland drains be provided.



- xiii. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xiv. The land after mining shall be brought back for agriculture purpose.
- xv. Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.
- xvi. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- xvii. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.
- xviii. Dust mask to be provided to everyone working in the mining area.
- xix. The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.
- xx. People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
- xxi. The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.
- xxii. 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 stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- xxiii. There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- xxiv. OB shall be stacked at seven earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Environment, Forests & Climate Change and its concerned Regional office on yearly basis.
- xxv. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted 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.
- xxvi. Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on the rainfall data.
- xxvii. Crushers at the CHP of adequate capacity for the expansion project 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 points, etc.
- xxviii. Drills shall be wet operated.
- xxix. The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,
- xxx. Controlled blasting shall 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 shall be implemented.
- xxxi. A Progressive afforestation plan shall be implemented covering an area of 1064 ha at the end of mining, which includes reclaimed External OB dump area (50.40 ha), Internal OB dump area (663 ha), and Green belt (187.63 ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.
- xxxii. An estimated total 889.33 Mm<sup>3</sup> of OB will be generated during the entire life of the mine. Out of which 8 Mm<sup>3</sup> of OB will be dumped in seven external OB Dumps an earmarked area covering 50.40 ha of land. 881.33 Mm<sup>3</sup> of will be two internal OB dump in covering an area of 663 ha. The maximum height of external OB dump for hard OB will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees.

Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.

- xxxiii. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxiv. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
- xxxv. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
- xxxvi. No groundwater shall be used for mining operations.
- xxxvii. Of the total quarry area of 814 ha. the backfilled quarry area of 663 ha shall be reclaimed with plantation and a void of 151 ha at a depth of 30 - 40 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
- xxxviii. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity 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 Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.
- xxxix. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
  - xl. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
  - xli. 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 a specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
  - xl.ii. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
  - xl.iii. 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 particular season which is consistent in the time series), and the report submitted to MOEFCC and its concerned Regional office
  - xl.iv. A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.
  - xl.v. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
  - xl.vi. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.
  - xl.vii. Corporate Environment Responsibility:
    - a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
    - b) 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.
    - 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-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

## **B. General Conditions**

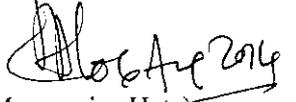
- i. No change in mining technology and scope of working shall be made without prior approval of the Environment, Forests & Climate Change.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> 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.
- iv. Data on ambient air quality (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised 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 HEMM, etc shall be provided with ear plugs/muffs.
- 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<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- 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.
- viii. 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 recognised under EPA Rules, 1986.
- ix. 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.
- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.
- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds 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 concerned Regional Office.
- xiii. 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 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 website of the Ministry of Environment, Forests & Climate Change at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any

- suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. 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.
  - 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 PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> (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.
  - 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.
  - xviii. The Regional Office of this Ministry located in the Region 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.
  - 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 MoEFCC by e-mail.
7. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
8. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent
9. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
10. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
11. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.
12. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
13. The above conditions will be enforced inter-alia, under the provisions of the 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 and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.
14. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal

Act, 2010.

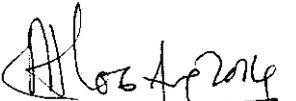
15. This EC supersedes the earlier EC, vide letter no. J-11015/29/2004-IA-II(M) dated 02.08.2006 & amendment dated 07.12.2006 for an expansion in production from 4.5 MTPA to 6 MTPA in a Mining lease area of 1798 ha.

16. The Environmental Clearance is subject to the outcome of the case filed in the Hon'ble Chief Judicial Magistrate's Court, Sonbhadra, Uttar Pradesh.

  
(Dr. Manoranjan Hota)  
Director

**Copy to:**

1. Secretary, Ministry of Coal, Government of India, Shastri Bhawan, New Delhi.
2. Secretary, Environment Department, Government of Uttar Pradesh, Secretariat, Lucknow.
3. Secretary, Environment Department, Government of Madhya Pradesh, Secretariat, Bhopal.
4. Chief Conservator of Forests (Western), Ministry of Environment & Forests, Regional Office, E-2/240 Arera Colony, Bhopal – 462016.
5. Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, B-1/272, Sector K, Aliganj, Lucknow – 226020.
6. Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
7. Member Secretary, Uttar Pradesh State Pollution Control Board, Building. No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010, Uttar Pradesh.
8. Member Secretary, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal – 462016.
9. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
10. Dr. R.K. Garg, Advisor, Coal India Limited, SCOPE Minar, Core-I, 4t Floor, Vikas Marg, Laxmi Nagar, New Delhi.
11. District Collector, Sonbhadra, Government of Uttar Pradesh.
12. District Collector, Sidhi, Government of Madhya Pradesh.
13. WL Division, Ministry of Environment, Forests & Climate Change, New Delhi.
14. Monitoring File    15. Guard File    16. Record File    17. Notice Board

  
(Dr. Manoranjan Hota)  
Director

नॉर्दर्न कोलफील्ड्स लिमिटेड  
(मिनी रत्न कंपनी)  
(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited  
(A Miniratna Company)  
(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220  
Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

### UNDERTAKING

Annexure-4

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020. In compliance of the conditions (xv) given in FC Stage -1 approval, I hereby agree and undertake that mined out and biologically reclaimed forest land will be surrendered to the State Forest Department in phased manner and as per the schedule.

Place: Bina Extn. Project  
Date: 18/11/2020

18/11/20  
Area General Manager  
Bina Extn. Project  
Northern Coalfields Limited  
General Manager, Bina Area

**Annexure-5**

**Bird nest made of ecofriendly material are installed at various location in and around mines.**



**Temporary demarcation of boundary of 353.764 ha forest area has been done with GPS coordinates**



नॉर्दर्न कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

Annexure- 6

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020. In compliance of the condition (xviii) given in FC Stage-1 approval, I hereby agree and undertake to pay the amount for afforestation on degraded forest land, one and half time in extent to the area used for safety zone.

Place:

Bina Extn. Project

Date:

18/11/2020

Area General Manager

Bina Extn. Project

Northern Coalfields Limited

Area General Manager, Bina Area

18/11/2020  
एन सी एल  
बीना क्षेत्र  
Area General Manager, Bina Area  
J.P. Godse

**NORTHERN COALFIELDS LTD.**  
**BINA KAKRI AMALGAMATION OPENCAST PROJECT**

**Condition No: 2(XXI) of Stage- I FC of 353.754 Ha Forest land of Bina Project**

**Scheme for De-silting of Village tank and other water bodies located within 05 Km. from the mine lease boundary as well as detailed plan for de-silting of above water bodies in compliance to the condition no. XXI of Stage-1 Forest Clearance for diversion of 353.764 Ha of Bina Forest Land.**

Bina mine has constructed major water reservoirs for storing of water and major portion of it is re-circulated and used for ground water recharging within the mine lease. Apart from these ponds 04 numbers of siltation tank/ponds with different capacity are constructed which is used to arrest silt from mine water. These Siltation ponds/tanks are cleaned every year before monsoon by JCB as well as manually. Combination of Gabion boxes with PVC bags are also provided to check the erosion and flow of silt throughout the embankment of the sump before and during monsoon season every year.

The capacity and geo-tagged co-ordinates of both ponds and Siltation tanks are as follows:

There are predominantly 02 drainage systems for dewatering the mine area. One in the South Section, at the junction of Bina and Krishnshila Project as the governing drainage path and another in the North section, Bina -Kakri nallah as the main drainage path. The above mentioned ponds and siltation tanks have been constructed strategically to stop the flow of silt into any water body outside the mine lease boundary.

De-silting and cleaning of the above mentioned structures are regular practice. Cleaning is being done as soon as the capacity is reduced by one third. At present the cleaning of all siltation ponds is under progress (copy of work order is enclosed).

The mechanical cleaning of all Kutcha and Pucca drains along Haul road and Retaining wall of the mines and also culverts is carried out before the onset of monsoon season every year. Apart from these, the retention wall is constructed along the toe of Over Burden in the mine every year to prevent any in-flow of the Over Burden into the water course.

The natural pond, their capacity and geo-tagged co-ordinates existing within the 5 Km periphery of the Bina mine lease boundary are as follows:

S. No	Pond Location	Capacity (m <sup>3</sup> ) (Approx.)	Latitude	Longitude
1	Chhath Ghat, Bina Residential Colony	40251.6	24°09'02.75" N	82°46'23.50" E
2	Pond near GM Office, Bina Area	194712.5	24°09'33.03" N	82°46'15.67" E
3	Pond near GM Office, KSL	5524.5	24°08'0.91" N	82°46'19.72" E
4	Pond in Rehta Village	1181	24°09'31.14" N	82°44'20.07" E

5	Tippa Jharia Pond	47759.6	24°11'11.18" N	82°44'13.25" E
6	Pond near Jhingurda Mine	29986.2	24°11'57.08" N	82°43'59.23" E
7	Pond in Barwani Village	425	24°08'28.74" N	82°46'39.58" E

Detailed Plan prepared in consultation with Forest Department for de-silting the pond:

1. De-silting of the pond shall be done once in every 5 years through J.C. Bamford Excavators (JCB) and also manually at the project cost. Approximately cost of de-silting for one time for each pond will be Rs. 60 per Cum for a lead of 5 Km.
2. Regular Inspection of the pond will be done for observing the siltation if any.

In addition to de-silting the ponds following measures are already being taken by the project to prevent silt flowing into the ponds.

1. Overburden dumping is done in benches/decks of maximum 30m heights and slope height and slope angle of each deck are maintained less than 37° whereas overall angle of repose is maintained less than 28°. Drainage profile is kept in such a way that outer edges of dump are at higher level than the inner surface so that minimum or negligible water can flow towards outer dump slope.
2. Garland drains are created at dump toe level and dip side surface of the mine to arrest silt.
3. Grass seed spraying is done on over burden dumps for dumping stability as well as soil erosion control. Plantation on OB dump slope and top is being done for biological reclamation and to control soil erosion.
4. Gabion wall/silt arrestor is provided along the foot of the over burden dumps for arresting silt.

*Prasanna*  
18/11/2020  
Project Officer  
Bina Project

*M*  
18/11/20  
SO (Mining),  
Bina Project

*Shy*  
18/11/20  
SO (Civil)  
Bina Project

*Maheshwar*  
18/11/2020  
AM (Civil)  
Bina Project

*OKF*  
18/11/2020  
AM (Env.)  
Bina Project

*L. P. Godse*  
एल पी गोडसे  
Area General Manager,  
क्षेत्रीय प्रमुख बर्ना क्षेत्र  
Bina Area  
L. P. Godse  
Area General Manager, Bina Area

*8*  
D.F.O.  
Singrauli

**Northern Coalfields Limited**  
**(A Mini Ratna Company)**  
**Bina Project**

Dated: 13.04.2020

No. B/Civil/LOA/2020-21/03/11

**By Registered Post/Email/By Hand**

To

M/s V.S. Brothers,  
Nagar Untari, Garwha  
Jharkhand  
Mobile Number : 9407884150  
Email: srikantjaiswal32@gmail.com & buntyg2@gmail.com

PAN No: AAKFM0783A  
GST No: 09AAKFM0783A1ZE  
A/C. No. 31819578696.  
SBI, Morwa

Sub: L.O.A. for the work "(A) Cleaning of intermediate sump 1,2,3 of mid entry along Haul Road, Siltation pond near SRT and cleaning of Kaccha Nallah (B) Cleaning of Pucca drain and culverts along all haul roads at various locations in mines and channel near PWD road in mines at Bina Project".

Ref: (1) : NIT No. : B/Civ/E-Tender/2020/35/738 Dated: 08.03.2020  
(2) Tender Id No. : 2020\_NCL\_167941\_1  
(3) Your offer dated: 27.03.2020

Dear Sir,

With reference to the above, this is to inform you that your offer to undertake the subject work at a value of **Rs. 83,40,796.51/- (INR Eighty Three Lakhs Forty Thousands Seven Hundred Ninety Six and Paise Fifty One Only) (With GST) and Rs. 70,68,471.62/- (INR Seventy Lakhs Sixty Eight Thousands Four Hundred Seventy One and Paise Sixty Two Only) (without GST)** has been accepted, subject to the following stipulations:

- 1) All materials and equipment required for the work will be arranged by you.
- 2) You are required to submit the registration / license under contract Labour (R&A) Act. 1970 within 10 (Ten) days from the date of receipt of this letter of acceptance. Work should be executed only after submission of labour licenses and execution of agreement.
- 3) The performance security deposit of 5% shall be Rs. 3,53,424.00/- The earnest money amounting to Rs. 1,25,000.00 deposited by you along with tender vide Reference No. 172893508564 by Axis Agreegator through online mode., has been taken as part of performance security deposit.

All running on account bills shall be paid @ 95% of work value. This 5% deduction towards retention money will be the second part of security deposit.

- 4) You are required to submit the following within 28 (twenty eight) days from the date of issuance of this letter of acceptance for issuing formal work order/ executing agreement.
  - i. Rs. 2,28,424.00/- to be deposited towards balance performance security money in acceptable form.
  - ii. Rs. 15,62,631.00/- to be deposited towards additional performance security money in acceptable form.
  - iii. Copy of income tax registration/PAN.
  - iv. Copy of GST registration.
  - v. Copy of partnership deed, Power of Attorney etc.
  - vi. Copy of CMPF/EPF Registration or Copy of undertaking for implementation of CMPF Act.
  - vii. PF code number issued from the respective PF commissioner.
  - viii. Non - Judicial Stamp Paper worth Rs. 100.00 of U.P State.
  - ix. PERT/BAR chart showing percentage of progress of completion of work.
  - x. Copy of letter of handing over the site

- xi. A certificate from practicing Chartered Accountant having a valid membership number complying of anti-profiteering clause U/S 171 as well as O.M. F.No. 296/07/2017-CX9 dated 15.06.2017 issued by department of revenue, Ministry of Finance, G.O.I. If Security money is deposited in the form of Bank Guarantee, it should be issued through Structural Financial Messaging System (SFMS) platform as per format given in the Tender Document.
- 5) The work shall be completed within 150 days from the date of commencement of work. The date of commencement of the work shall be reckoned from the 10th day of issue of this letter of acceptance or 7<sup>th</sup> day from the actual date of handing over the site whichever is later.
- 6) The work should be executed as per the B.O.Q General Terms & conditions, additional terms and conditions, CPWD specifications, BIS Standards description, of the terms of the accepted tender document and instruction of EIC.
- 7) In case of failure to start the work within specified date of commencement of work as per Cl. no. 5 of the subject LOA, the company shall be at liberty by giving 15 days notice in writing to start the work, failing which LOA issued shall be rescinded with forfeiting the Earnest Money deposited by you. Additionally you will be debarred from participating in future tenders for period of 1(one) year.
- 8) The work should be executed as per the BOO. General Terms & Conditions, Additional Terms & Conditions, Scope of Work, Special Terms & Conditions, CPWD specifications, BIS Standards, description of the items of the accepted tender document and instructions of EIC.
- 9) You shall not pay less than the minimum wages to the laborers engaged by you as per Minimum Wages Act or such other legislation or award of minimum wages fixed by the respective State Govt. or Central Govt. as maybe enforce.
- 10) You should ensure implementation of CMPF and Miscellaneous Provisions Act 1948 and allied scheme and Miscellaneous Provision Act, 1948 or Employees Provident Fund and Miscellaneous Provision Act, 1952 as the case may be and allied scheme framed there under in respect of workers deployed by you and will have to recover statutory dues and deposit the same along with employer's contribution (Contractor's share) to the respective CMPF/EPF office through principal employer and to submit statutory return under intimation to the principal Employer.
- 11) All taxes (Except GST), local, municipal, provincial or central etc. and cess, royalties etc. as payable shall be to the contractors account and shall be deemed to have been included in the tendered rate for the work to be executed.
- 12) Regarding GST, the following may please be noted:
- (i) GST will be reimbursed on production of uploaded invoice / documentary evidence. Amount of statutory levies like CGST, SGST or IGST will be released when the same will appear in GSTR.2A of NCL in the common portal of GST and after submission of documentary evidence of deposition of GST Taxes and filing of GST Returns.
- (ii) You will have to pass on Input Tax Credit by way of enclosing original Tax input invoice with bill.
- (iii) All invoices submitted by you will have to be in the form of GST invoice giving all details as required under the law. You will raise invoice strictly adhering to provisions of Section 31 under CGST Act 2017 along with Rule 46 & 47 of CGST Rule, 2017. You will indicate the rate as well as amount of CGST, SGST or IGST in invoice. You will upload the details of invoice on GST portal as per the provisions of GST Act. Invoice issued by you should bear GST Registration Number of NCL [23AABCN4884HEM1ZE (MP) &09AABCN48S4HIZ4 (UP)] to enable NCL to claim input tax credit.
- (iv) You will file all the Returns and details as applicable under GST Laws & Rules within due dates.
- (v) You will give an undertaking on invoice or as separate Annexure along with the invoice that the Invoice I applicable GST Returns has been I will be uploaded on GST Portal within due time as prescribed in CGST Act and CGST, SGST or IGST has been deposited as per the provisions of GST Act and rules thereof.
- (vi) If there is any delay of payment against the Invoice due to your fault and if any reversal of input tax arises, the same will be recovered from you along with interest and penalty if any, as paid by NCL due to reversal.
- (vii) In case the GST rating of vendor on the GST Portal / Government's official website is negative I black listed at any stage even after award of work, NCL has right to cancel the Letter of Award. NCL shall not be obliged or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct/recover such GST along with all penalties /interest, if any incurred by NCL.

liable to pay or reimburse GST to such vendor and shall also be entitled to deduct/recover such GST along with all penalties /interest, if any incurred by NCL.

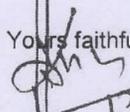
(viii) You will issue credit note as per the provisions of Rule 53 of CGST Rule, 2017 on quality deduction or Liquidated Damages, if any arises.

(ix) If you default in uploading the invoice / applicable GST Returns or default in deposit of applicable GST Taxes, NCL reserves the right to upload such defaulter on NCL website and may also debar you from participating in future tenders for a minimum period of one year.

- 13) The impact of GST is **Rs. 12,72,324.89/-** out of which company's liability is 0% and balance 100%, i.e. **Rs. 12,72,324.89/-** is your responsibility which will be reimbursed on producing documentary evidence(GST invoice). However, the final amount of GST shall be worked out on the basis of the final value of work done as per GST rules applicable during the period of completion.
- 14) All the Clauses of Safety Code as laid down in Additional Safety Measures to be taken by the contractors of the Tender Document are to be strictly followed.
- 15) Project Engineer (C), Bina Project will function as Engineer-in-charge. Please contact Project Engineer (C), Bina Project for instructions regarding commencement of the work.

Please acknowledge receipt of this letter.

Yours faithfully,

  
13/4/2020  
S.O. (C)  
Bina Project  
Kumar

**Copy to:-**

1. The C.V.O, NCL, Singrauli.
2. The GM, Bina.
3. The GM (C), NCL, Singrauli.
4. The PO, Bina
5. The SO(Mines), Bina
6. The A.F.M., Bina - Revenue B.C. No. 2020-21/02/71/04 dtd. 10.04.2020 for Rs 83,40,796.51/- (including GST) & F.D. No. 20-21/04 dtd. 11.04.2020
7. The S.O. (P), Bina.
8. The PE(Civil), Bina
9. Shri B.K.Shukla , EA (C), Bina.
10. Shri Nitish Kumar, Accounts Clerk-II(C), Bina. Along with tender file (Note sheet – 14 pages and tender related papers- 41 pages)
11. Shri Nitish Kumar, Accounts Clerk-II(C), Bina.
12. File

**Site Specific Rehabilitation and Resettlement Plan of Bina Opencast Mine  
in accordance with R&R Policy 2012 of Coal India Limited**

Land area for Bina Extn. Opencast Project has been acquired under Coal Bearing (Acquisition and Development) Act, 1957, which includes forest area as well as non-forest area. R&R policy of CIL(Annexure-A) is being implemented by **Bina Extn. project**. The tenants of the non-forest area were provided with R&R benefits. Site specific R&R plan for the tenants in the non-forest area as per R&R Policy of Coal India Ltd. is submitted below.

As per R&R Policy 2012 of CIL	Site Specific Compliance
<p><b><u>8.1(i).A. Land Compensation :</u></b></p> <p>Land compensation shall be paid as per the provisions of the concerned Act or State Govt. notification.</p> <p>In addition to above Solatium will be paid as per provisions of the concerned Act/ as imposed by the Concerned State Govt.</p> <p>Escalation will be paid as per provisions of the concerned Act/ as imposed by the Concerned State Govt. or Escalation at the rate of 12% per annum for a maximum period of three years.</p>	<p>i. As per the Site Specific Policy, the land compensation has been paid to the land losers as per the provisions of the CBA (A&amp;D) Act, 1957.</p> <p>ii. Solatium at the rate of 30% has been paid to the land losers.</p> <p>iii. Escalation at the rate of 12% per annum for a period of three years has been paid to the land losers.</p> <p>iv. Total Land Compensation of <b>Rs.35.55 Lakhs</b> has been paid to the land losers till date.</p>
<p><b><u>8.1(i).B. Employment Provision :</u></b></p> <p>Apart from payment of the land compensation, employment may be given in the following manner-</p> <ol style="list-style-type: none"> <li>1) The maximum total number of employments that may be provided to the land losers would be limited to the total no. of acres of land acquired divided by two.</li> <li>2) For every two acres of land one employment can be considered.</li> <li>3) Subsidiaries of CIL may give an option to the Land losers having less than two acres of land to club together their land to the extent of two acres and nominate one of the land losers among the groups or their dependent for employment under package deal or employment under descending order system by preparing the list of eligible land oustees in the descending order of</li> </ol>	<p>i. As per the site specific policy, the persons who losses their land due to the acquisition of land are given employment in lieu of their acquired land.</p> <p>ii. For every two acres of land one employment is given based on the application submitted by the land loser.</p> <p>iii. Under package deal of employment, Land losers having less than two acres of land have been given the option to club their land with other land losers to have total land to be equal to or more than two acres to get employment.</p> <p>iv. Total <b>273 land losers</b>, whose land has been acquired, has been provided with employment by the project till date.</p>

<p>land lost subject to to the cut-off equivalent to the total number of permissible employments or any other method with the approval of the respective board of the subsidiary.</p>	
<p><b><u>8.1(i).C. Lumpsum Monetary Compensation :</u></b>  All the land losers who are not eligible for employment as above shall be entitled to receive monetary compensation in lieu of employment at the rate of Rs.5,00,000 /- (Five Lakhs) for each acre of land on pro-rata basis. Land losers eligible for employment but opt to forego employment are entitled to receive monetary compensation in lieu of employment @ Rs. 5,00,000/- for each acre of land on pro-rata basis with minimum of Rs. 50,000/-.</p>	<p>Site specific policy is in line with the stated policy. Total 38 no. of PAPS have opted for monetary compensation for Rs 50000/- each.</p>
<p><b><u>8.1(ii). Person whose homestead is acquired :</u></b>  I. Compensation for homestead shall be paid as per the standard valuation method of the L.A. Act of the concerned State Govt.   II. One time lump sum payment of Rs. 3,00,000/- (three lakhs), shall be paid in lieu of alternate House site, Assistance in designing Shifting Allowance Compensation, etc.</p>	<p>i. As per the site specific policy, the person whose homestead is acquired are given resettlement benefits.  ii. As per the Policy, the family displaced due to the acquisition or the Project Affected Families (PAFs) are given two options for resettlement. They can either settle on the plots constructed in the Rehabilitation site or can choose to receive a one-time lump sum payment in lieu of alternate housing site.  iii. Total <b>389</b> numbers of Project Affected Families (PAFs) were displaced due to the acquisition. The PAFs were resettled on plots constructed in the Rehabilitation Site (Jawahar Nagar Village) of Bina Extn. OCP. The PAFs who were not willing to settle on the plots in Rehabilitation Site, were given the one-time lump sum payment in lieu of alternate housing site.</p>

<p><b>8.1.(iii). Sharecroppers, land lessees, tenants and day labourers</b> The subsidiary will assist PAP to take-up non-farm self-employment through contracts or formation of cooperatives. Contractors will also be persuaded to give job to eligible PAPs on a preferential basis, where feasible as per terms of contract.</p>	<p>i. Site specific policy reserves the contract value below <b>Rs. 10 Lakhs</b> for PAPs only. Accordingly, the PAPs are provided with PAP certificate by the projects, on the basis of which they are awarded with contracts in the subsidiary. ii. In addition to the above, the eligible PAPs are also offered employment in the outsourced working contracts in the Project.</p>
<p><b>10. Community facilities:</b> The subsidiary will provide at the resettlement site a school, road with street light, pucca drain, pond, dugwell and/or tubewell for drinking water supply, community center, place of worship, dispensary, grazing land for cattle and play ground.</p>	<p>i. In accordance with the site specific policy, the Rehabilitation Site (i.e. Jawahar Nagar Village) has been provided with approach and internal road with street lights, school, pucca drain, dug-well, hand-pumps for drinking water supply &amp; grazing land for cattle and playground. ii. Deepening &amp; Widening of existing pond with ghat construction at rehabilitation site has been done. iii. Community centre has been constructed at Rehabilitation site. iv. School were constructed in the villages v. Dispensary is available in the Rehabilitation site where doctors visit regularly. Also, regular medical camps are being conducted.</p>

**Apart from the benefits mentioned in the R&R Policy of the CIL the PAFs are provided with following benefits :**

- i. The PAFs are provided with other benefits under the CSR activities. Various skill development and entrepreneurship development programmes are being carried out in the rehabilitation site.
- ii. Fruit bearing plants are regularly distributed in the rehabilitation site. Around 3500 numbers of trees have been distributed in rehabilitation site during the last three years.
- iii. Following activities have been conducted under CSR in the Rehabilitation Site, during the last three years:

Year	Activity	Expenditure Incurred (in lakh Rs.)
2017-18	Running and maintenance of tailoring center in different villages on honorarium basis, Promotion of village sports in the nearby villages of Bina Project, Organizing Ophthalmic camps with a mission "Healthy Vision for All" in 4 villages, Promotion of education through distribution of school bags in government schools to children, Distribution of woolen cloths to school children of nearby villages, Heightening of boundary wall of primary school and replacement of door and window shutter of Anganwadi of Jamshila Panchayat, Bina Project	22.96
2018-19	Construction of Sauchalya 4 nos. at different places such as bus stand at Jhamshila of Bina project, Strengthening of Iron bridge connecting Barwani & Gharsari, Construction of community hall at nearby villages, installation of 30 nos hand pump in nearby areas of Bina Project	31.99
2019-20	LMV driving training to the 100 nos. Youths of nearby villages, Skill development projects to be organised by different project and units based on the need and requirement of local community, Construction of new boys and girls toilets at Bina Primary School and Bina Intermediate college with water suply arrangements, Organising village sports in villages near by Bina, Village heath camps (04 Nos)	25.19

*M*  
18/11/20  
Chief Manager (Mining)  
Bina Extn. Project, NCL

*Mohit*  
18/11/2020  
Revenue Inspector  
Bina Extn. Project, NCL

*LP*  
18/11/20  
Area General Manager,  
Bina Extn. Project  
क्षेत्रीय महाप्रबंधक, बीना क्षेत्र  
L. P. Godse  
Area General Manager, Bina Area

*✓*  
D.F.O.  
Singrauli

नॉर्दर्न कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122/Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

Annexure-9

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020.

In compliance of the condition (xxiii) given in FC Stage-1 approval, I hereby agree and undertake that mining activity will be carried out in a phased manner and take due care for reclamation of the mined over area. The concurrent reclamation plan shall be executed by me as per the approved mining plan/scheme and an annual report on implementation there of shall be submitted to the Nodal Officer, Forest (Conservation) Act, 1980, Government of Madhya Pradesh and the Addl. Principal Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Bhopal.

Place:

Bina Extn. Project

Date:

18/11/2020

Area General Manager

Bina Extn. Project

Northern Coalfields Limited

Area General Manager, Bina Area

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र..)पिन- 23122/Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

Annexure-10

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020.

In compliance of the conditions no (xxv) given in FC Stage-1, I hereby agree and undertake that alternate fuel will be provided to the laborers and the staff working at the site so as to avoid any damage and pressure on the adjacent forest areas.

Place:

Bina Extn. Project

Date:

18/11/2020

Area General Manager

Bina Extn. Project

Northern Coalfields Limited

UPL

Area General Manager, Bina Area

18/11/20

Area General Manager, Bina Area

Area General Manager, Bina Area

Area General Manager, Bina Area

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : [cgmbin.ncl@coalindia.in](mailto:cgmbin.ncl@coalindia.in) Website : [www.nclcil.in](http://www.nclcil.in)

Annexure-11

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020.

In compliance of the condition (xxvii) given in FC Stage-1, I hereby agree and undertakes that forest land shall not be used for any purpose other than that specified in the proposal.

Place: Bina Extn. Project  
Date: 18/11/2020

Area General Manager  
Bina Extn. Project  
Northern Coalfields Limited  
Area General Manager, Bina Area

OK

## FORM-II

(for projects other than linear projects)  
Government of Madhya Pradesh

## Office of the District Collector SINGRAULI

No. <sup>920</sup>...../FRA/TRIBAL/49/2016

SINGRAULI Dated: 26-03-2016

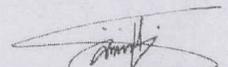
TO WHOM SO EVER IT MAY CONCERN

In compliance of the Ministry of Environment and Forests (MoEF), Government of India's letter No. 11-9/98-FC (pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA, for short) of the forest land proposed to be diverted for non-forest purposes, it is certified that 390.264 Hectares of forest land proposed to be diverted in favour of Bina Kakari Amalgamation Project of M/s Northern Coalfields Limited, Singrauli (Govt. of India Undertaking) for Opencast Coal Mining in Singrauli district falls within jurisdiction of Ward No. 11, Dayanand Ward (Village - Dudhichua, Karuwari, Churideh & Jhingurda) in Singrauli Nagar Palik Nigam (Municipal Corporation).

It is further certified that:

- (a) The complete process for identification and settlement of rights under the FRA has been carried out for the entire 390.264 hectares of forest land purposed for diversion. A copy of records of all consultation and meetings of the Mohalla Forest Rights Committees(s), Mohalla Sabha(s), Sub-Division Level Forest Rights Committee, Waidhan, Singrauli are enclosed as annexure 1 to annexure 2.
- (b) The proposal for such diversion (with full details of the project and its implications in vernacular / local language) have been placed before each concerned Mohalla Sabha of forest-dwellers, who are eligible under the FRA.
- (c) The each of concerned Mohalla Sabha(s), has certified that all formalities / processes under the FRA have been carried out, and that they have given their consent to the proposed diversion and the compensation and ameliorative measure, if any, having understood the purpose and the details for proposed diversion. A copy of certificate issued by the Mohallasabha of Ward No. 11, Dayanand Ward (Village - Dudhichua, Karuwari, Churideh & Jhingurda) in Singrauli Nagar Palik Nigam (Municipal Corporation), Sub-Division Level Forest Rights Committee, Waidhan, Singrauli & District level Forest Rights Committee, Singrauli and is enclosed as annexure 3 to annexure 4.
- (d) The discussion and decisions on such proposals had taken place only when it was a quorum of minimum 50% of the members of Mohalla Sabha presence.
- (e) The diversion of forest land for facilities managed by the Government as required under section 3 (2) of the FRA have been completed and the Mohalla Sabhas have given their consent to it.
- (f) The rights of Primitive Tribal Groups and Pre-Agricultural Communities, where applicable have been specifically safeguarded as per section 3 (1) (e) of the FRA.

Encl.As above.

  
(SHASHANK MISHRA)  
Collector  
DISSTT-SINGRAULI

*Handwritten initials:*  
J/V  
AC

नॉर्दर्न कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122 / Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

Annexure-13

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020.

In compliance of the condition (xxix) given in FC Stage-1, I hereby agree and undertake that double no. of trees (491000 nos.) will be planted through Madhya Pradesh Rajya Van Vikas Nigam in phased manner on the backfilled areas.

Place: Bina Extn. Project  
Date: 18/11/2020

18/11/20  
एल. पी. गोडसे  
Area General Manager  
Bina Extn. Project  
Northern Coalfields Limited  
P. Godse  
Area General Manager, Bina Area

नॉर्दन कोलफील्ड्स लिमिटेड

(मिनी रत्न कंपनी)

(कोल इंडिया लिमिटेड की अनुषंगी कंपनी)



Northern Coalfields Limited

(A Miniratna Company)

(A subsidiary of Coal India Limited)



CIN- U10102MP1985GOI003160

An ISO: 9001, ISO: 14001 & OHSAS: 18001 Certified Company

पोस्ट- बीना परियोजना, जिला-सोनभद्र (उप्र.)पिन- 23122/Post- Bina Project, Dist- Sonebhadra (U.P.)- 231220

Phone : 05446-276279 (O), 267280 (R) Fax : 05446-276274, 07805-25610 e-mail : cgmbin.ncl@coalindia.in Website : www.nclcil.in

Annexure-14

UNDERTAKING

Bina Kakri Amalgamation OCP has been given Stage- 1 forest approval by MoEF&CC, New Delhi for 353.764 ha forest land vide letter no. 8-69/2018-FC dated 13<sup>th</sup> January, 2020.

In compliance of the condition (xxx) given in FC Stage-1, I hereby agree and undertake that annual self - compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to the Ministry by the end of March every year.

Place: Bina Extn. Project  
Date: 18/11/2020

18/11/2020  
एल. पी. गोडसे  
Area General Manager  
Bina Extn. Project  
Northern Coalfields Limited  
P. Godse  
Area General Manager, Bina Area  
URP

**NORTHERN COALFIELDS LTD.**  
**BINA KAKRI AMALGAMATION OPENCAST PROJECT**

**Condition No: 2(xiii) (a) of Stage- I FC of 353.764 Ha Forest land of Bina Kakri Amalgamation Open Cast Project.**

**Scheme for construction of Gabion Boxes in compliance to the condition no. 2 (xiii) (a) of Stage-I approval for diversion of 353.764 Ha Forest Land for Bina Kakri Amalgamation Project.**

Bina Project had applied for diversion of forest land of 353.764 Ha. Stage-I was granted by MoEF & CC, New Delhi on 13.01.2020. Condition no. (xiii) (a) states, "Mitigative measures to minimize soil erosion and choking of streams shall be implemented in accordance with the approved plan in consultation with the State Forest Department."

**1. Need of the Scheme:**

In compliance to the above, gabion boxes or gully plugs shall be constructed for preventing flow of OB material/ silt from Bina Mine, if any, to the outside stream/ water body and preventing soil erosion.

As per the topography on the dip side of the proposed 353.764 Ha forest land for diversion, minor streams/valleys have been identified where gabion boxes/gully plugs are required to prevent soil erosion, especially during monsoon season. Further, the existing Bina mine is covered by Krishnshila Open cast mine on the South side and Kakri Open cast mine on the North side. As such, installation of gabion boxes on the North and South side cannot be considered. However, considering the currently excavated area of the Bina mine, in two layers with the height of 2m is identified where gabion boxes needs to be installed at Bina project with a view to mitigate the effect due to soil erosion.

This scheme is required for taking such mitigative measures in compliance to the above conditions of Stage-I approval for diversion of forest land of 353.564 Ha for Bina-Kakri Amalgamation Project.

**2. Dimension of Gabion Boxes:**

- Brief details of the Gabion Boxes:
  - Length : 10 m
  - Gross Height : 2000 mm
  - Width of bottom slab : 2000 mm
  - Width of top slab : 1500 mm

**3. Cost Input (Approximate)**

- Cost per running meter: Rs. 4,918.47 (including GST)
- Length of each Gabion Box/ Gully Plug: 10 m
- Total Length of 340 Gabion Boxes/ Gully Plugs: 3400 m
- Total cost for 3400 meter : Rs. 1,67,22,798

(Rupees One crore sixty seven lakh twenty two thousand seven hundred ninety eight only)  
(Approx.)

#### 4. Procedure:

Construction of 340 no. of Gabion Boxes will be required on sites as shown in the plan as Annexure D, in order to minimize the choking of the streams and nearby surface water body due to soil erosion.

Apart from the above measures, following steps are also being taken to minimize soil erosion:

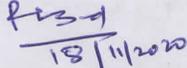
- OB dumping is done in benches/ decks of maximum 30 m height and slope angles of each deck are maintained less than  $37^{\circ}$  whereas overall angle of repose is maintained less than  $28^{\circ}$ .
- Drainage profile is kept in such a way that outer edges of dump are at a higher level than the inner surface so that minimum or negligible water accumulation can be coursed towards dump slope.
- Garland drains are provided at dump toe level and dip side surface of the mine.
- Grass seed spraying is done on dump slopes. Plantation on the dump slope and top is done for final biological reclamation.

#### 5. Implementation Schedule:

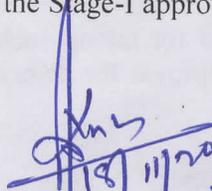
Gabion boxes at the toe of the dump along the Haul road of the existing mine will be constructed in each year till mine life i.e. 2035-36.

#### 6. Conclusion:

Provision of Gabion Boxes in different stretches, in and around Bina OCP will serve as additional mitigative measures to minimize soil erosion and choking of streams in compliance to the condition no. (Xiii) (a) of the Stage-I approval granted by MoEF & CC for diversion of Forest Land of 353.724 Ha.

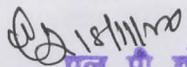
  
18/11/2020  
Project Officer  
Bina Ext. Project

  
18/11/20  
SO (Mining),  
Bina Ext. Project

  
18/11/20  
SO (Civil)  
Bina Ext. Project

  
18/11/2020  
AM (Civil)  
Bina Ext. Project

  
18/11/2020  
AM (Env.)  
Bina Ext.

  
18/11/20  
एल पी गोडसे  
Area General Manager,  
Bina Extn. Project  
L. P. Godse  
Area General Manager, Bina Area

  
D.F.O.  
Sagrauli

**NORTHERN COALFIELDS LTD.**  
**BINA KAKRI AMALGAMATION OPENCAST PROJECT**

Condition No: 2(xiii)(b) of Stage- I FC of 353.764 Ha Forest land of Bina Kakri  
Amalgamation Open Cast Project.

**Scheme of Planting Of Adequate Drought Hardy Plant Species And Showing Of Seeds, In The  
Appropriate Area Within The Mining Lease To Arrest Soil Erosion:**

Area to be reclaimed in 353.764 Ha Forest land of Bina Kakri Amalgamation OCP: 224.384 ha.

- i) Undisturbed Forest Area : 50 Ha  
(Including safety zone)  
ii) Water body : 79.38 Ha  
**Sub-total : 129.38**

**Area to be reclaimed : 353.764-129.38 = 224.384 ha.**

Details of year-wise area to be reclaimed as well as cost thereof are as under:

Year	Overburden Dump Area to be technically & Biologically reclaimed(Ha.)	No. of Plants to be planted @ 2500 /ha.	Cost @Rs. 287/ Plant (As on 31.03.20)	Cost assuming 5 % flat increase in cost/year due to escalation in Minimum Labour wage & material cost
			(in Lakhs)	(In lakhs)
2030-31	20	50000	143.50	215.25
2031-32	20	50000	143.50	222.43
2032-33	25	62500	179.38	287.00
2033-34	40	100000	287.00	473.55
2034-35	60	150000	430.50	731.85
2035-36	59.384	148460	426.08	745.64
<b>Total</b>	<b>224.384</b>	<b>560960</b>	<b>1609.96</b>	<b>2675.72</b>

**Note:** Cost per plant @Rs. 287/ Plant has been derived based on present Minimum labour wages of Rs. 318.00/ man day for calculation of expenditure.

**Hardy Species to be planted for reclamation:**

After preparation of 1 m wide steps on slopes and leveling of dump top, saplings of following species shall be planted: Bamboo, Sahtut, Karanj, Neem, Babool, Khair, Ber, Subabool, Jungle Jelibi, Sisoo, Siris, etc.  
In low lying areas of OB dump tops: Arjun, Jamun  
Seeds of Neem, Babool, Subabool etc. and varieties grasses will be spread on slopes and tops of overburden dumps to check soil erosion.  
For soil erosion control check dams, gully plugs shall be constructed at requisite places of O.B Dumps and seeding of sabai grass /Dinanath grass etc. shall be done as per demand of the sites.

*R/S*  
18/11/2020  
Project Officer  
Bina Extn. Project

*M*  
18/11/20  
Staff Officer (Mining),  
Bina Extn. Project

*UPF*  
18/11/2020  
Asst. Manager (Env.),  
Bina Extn. Project

*L.P. Godse*  
Area General Manager,  
Bina Extn. Project.  
L. P. Godse  
Area General Manager, Bina Area

*D.F.O.*  
Singrauli

**NORTHERN COALFIELDS LTD.**  
**BINA KAKRI AMALGAMATION OPENCAST PROJECT**

**Condition No: 2(xiii)(c) of Stage- I FC of 353.754 Ha Forest land of Bina Project**

**Scheme for construction of Check Dams & Retaining wall at Bina Project in compliance to the condition 2(xiii)(c) of Stage- I FC for diversion of 353.764Ha Forest Land for Bina Kakri Amalgamation Project**

Bina Project had applied for diversion of forest land of 353.764Ha. Stage-I approval was granted by MoEF & CC, New Delhi on 13.01.2020. Condition no. (xiii)(c) of this approval states, *“Following activities, as per approved plan/ schemes, shall be implemented by the user agency under the supervision of State Forest Department:- Construction of check dams, retention/ toe walls to arrest sliding down of the excavated material along the contour.”*

**1. Need of the Scheme:**

In compliance to the above, check dams and Retaining wall shall be constructed for preventing flow of OB material/ silt from Bina Mine, if any, to the outside stream/ water body and preventing soil erosion.

As per the topography on the dip side of the proposed 353.764Ha forest land for diversion, one stream have been identified where check dams are required to prevent soil erosion during monsoon season. Further, the existing Bina mine is covered by Krishnshila Open cast mine on the South side and Kakri Open cast mine on the North side. As such, construction of check dams/retaining wall on the East and West side cannot be considered.

Considering the currently excavated area of the Bina mine, Retaining wall has been constructed along the haul Road of the Bina Mine, However, before the onset of monsoon every year, the Retention wall is constructed at the toe of the dump to stop the flow of OB material/Silt from the OB dump. For the current financial year 70m of retention wall with the stem height of 4.6m has been proposed. Location and detail is shown in the plan which is enclosed herewith at Annexure – D.

This scheme is required for taking such mitigative measures in compliance to the above conditions of Stage-I approval for diversion of forest land of 353.564 Ha for Bina-Kakri Amalgamation Project.

**2. Location & Details**

- Brief details of the check dam (approximate):
  - Length : 25- 30 m
  - Base width : 1000 mm
  - Top width : 450 mm
  - Drainage gate : one no. of width 1.5 m
- Brief details of the Retaining Wall (approximate):
  - Type : Cantilever type vertical RCC Retaining Wall
  - Length : 960 m
  - Stem height : 4 m
  - Height above ground level : 2.9 m
  - Base width : 310 mm
  - Top width : 200 mm
  - Drainage gate : One no. of width 1.5 m
- Location of the Retaining Wall, as shown in enclosed plan as Annexure- D.

### 3. Cost Input (approximate)

#### a) Check Dam

- a. Cost per running meter : Rs. 82,600 (including GST)
- b. Total Cost for one check dam (30 m) : Rs. 24,78,000.00  
(Rs. Twenty Four Lakh Seventy Eight Thousand only) (Approximate)

#### b) Retaining wall

- a. Cost per running meter : Rs. 25,638.90 (including GST)
- b. Total Cost for one retaining (3400 m) : Rs. 87172260  
(Rs. Eight Crore Seventy one lakh seventy two thousand two hundred and sixty only) (Approximate)

### 4. Justification for Investment:

These check dams and retaining wall will serve as a barrier against flow of OB silt from the Bina Mine towards outside Water Bodies and ensure improved preservation of this natural resources. Silt outflow from the mine will be reduced to a minimum by this step while effectively controlling the soil erosion. These check dams will also serve as water storage reservoir and will also help in ground water recharge. As such the investment is fully justified from point of view of environmental protection.

### 5. Procedure:

Construction of check dams and retaining wall is required at the sites shown in the Plan, in order to minimize the choking of the streams and nearby surface water body due to soil erosion/silt flow.

Apart from the above, following steps are also being taken to minimize soil erosion:

- OB dumping is done in benches/ decks of maximum 30 m height and slope angles of each deck are maintained less than  $37^{\circ}$  whereas overall angle of repose is maintained less than  $28^{\circ}$ .
- Drainage profile is kept in such a way that outer edges of dump are at a higher level than the inner surface so that minimum or negligible water accumulation can be coursed towards dump slope.
- Garland drains are provided at dump toe level and dip side surface of the mine.
- Grass seed spraying is done on dump slopes
- Plantation on the dump slope and top is done for final biological reclamation.
- Gabion/Silt Arrestor are provided along the foot of the dump.

### 6. Implementation Schedule:

Construction of Check Dam, including estimation and tendering takes 24 months' time. Construction of check dam in the dip side of the proposed 353.764 ha. forest land for diversion is subject to the permission of Forest Department, as the area lies in the jurisdiction of MP forest department.

Similarly retaining wall at the toe of the dump along the haul road of the existing mine will be constructed in each year till mine life i.e. 2035-36.

**7. Conclusion:**

Provision of check dams on all the major exit streams and retaining wall near the toe wall of the OB dump facing water body of the mine will serve as additional mitigative measure for arresting sliding down of the excavated material along the contour in compliance to the Condition no. 2 (Xiii)(c) of Stage-I approval for Bina Kakri Amalgamation Project granted by MoEF&CC for diversion of Forest Land of 353.764Ha. However, construction of check dam in the dip side of the proposed 353.764Ha forest land for diversion is subject to the permission of forest department as the area lies in the jurisdiction of MP forest department.

*P.S.*  
18/11/2020  
Project Officer  
Bina Ext. Project

*L*  
19/11/20  
SO (Mining),  
Bina Ext. Project

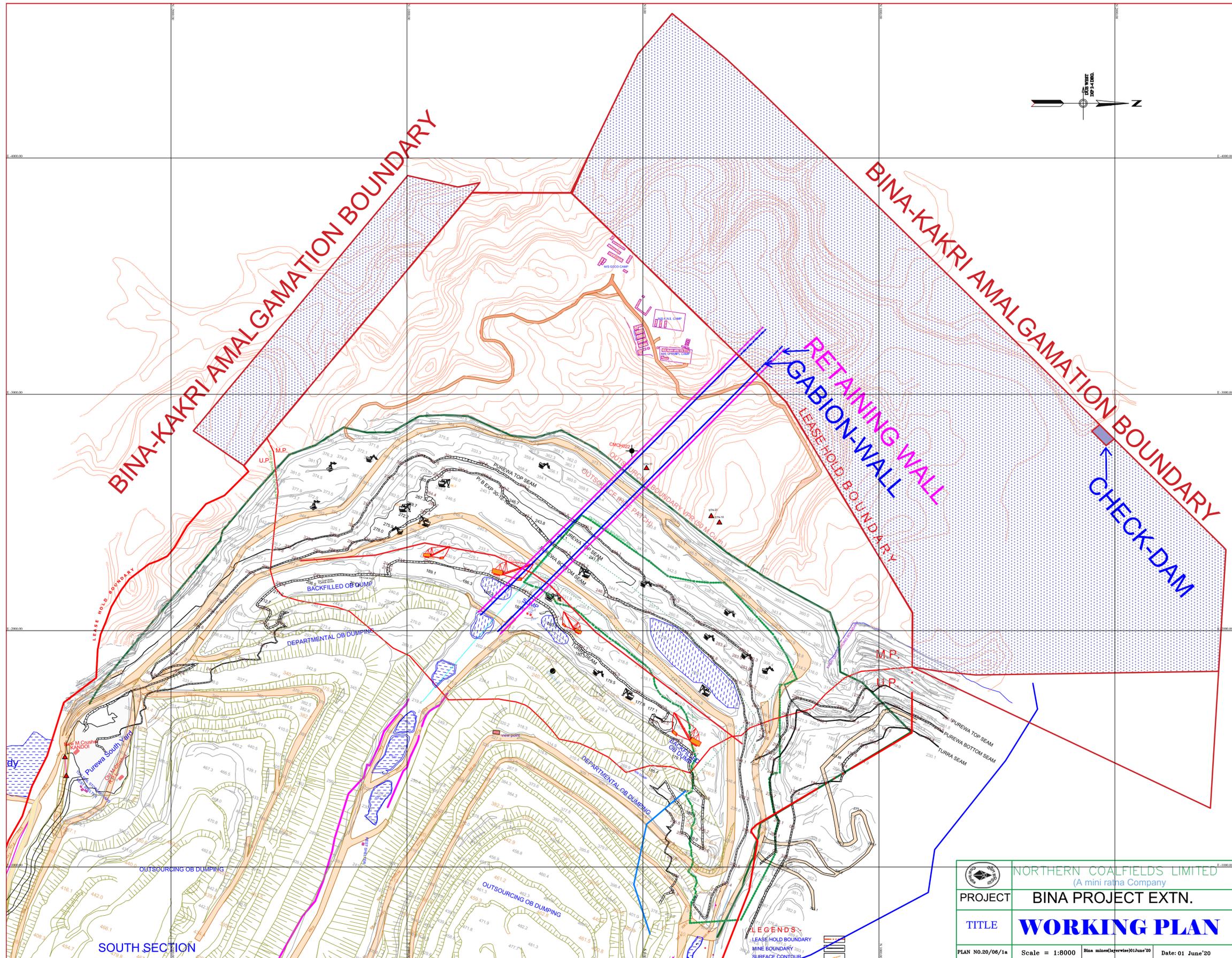
*Ami*  
19/11/20  
SO (Civil)  
Bina Ext. Project

*Mohd Farzan*  
18/11/2020  
AM (Civil)  
Bina Ext. Project

*U.S.F*  
18/11/2020  
AM (Env.)  
Bina Ext.

*L.P. Godse*  
Area General Manager,  
Bina Extn. Project  
क्षेत्रीय महाप्रबंधक, बीना क्षेत्र  
L. P. Godse  
Area General Manager, Bina Area

*D.F.O.*  
Singrauli



 <b>NORTHERN COALFIELDS LIMITED</b> (A mini ratha Company)	
PROJECT	BINA PROJECT EXTN.
TITLE	<b>WORKING PLAN</b>
PLAN NO.20/06/1a	Scale = 1:8000
Bina mines (a/c/rev) 01 June '20	Date: 01 June '20

**LEGENDS**  
 LEASE HOLD BOUNDARY  
 MINE BOUNDARY  
 SURFACE CONTOUR