

The presentation on EIA & EMP for Environmental Clearance of Konar Exp OCP (8.0 MTPA normative capacity/11.0 MTPA peak capacity & integrated non-coking coal washery of 7.0 MTPA) was made on 23.06.2016. The EAC, MOEF&CC noted following points/ raised queries.

SN	Observation of EAC	Reply/ Status
1.	The proposal envisages amalgamation of Konar OCP and the Khasmahal OCP (sanctioned /granted individually earlier) followed by integration with the proposed washery of 7 MTPA. That would involve correction in area from the present of 620.08 ha to 547.38 ha. The documentation needs to be revised accordingly.	<ul style="list-style-type: none"> <input type="checkbox"/> The TOR for Konar Expansion OCP was issued with increase in project area from 520.93 Ha to 729.40 Ha. <input type="checkbox"/> In the prescribed TOR, the EAC desired that project proponent may explore the possibility of reducing forest land requirement by locating the washery & FBC plant in non-forest land. <input type="checkbox"/> The project area of Khasmahal OCP as per EC condition is 318.71 Ha & Konar OCP is 301.37 Ha. The combined area comes to 620.08 Ha. However, these project areas overlap with each other to accommodate the common external OB dump for the two mines (to the extent of 99.16 Ha). <input type="checkbox"/> After deducting the common area, the net project area of Khasmahal OCP as per EC condition is 219.56 Ha & Konar OCP is 301.37 Ha. Accordingly net combined project area of existing project becomes 520.93 Ha not 620.08 Ha. <input type="checkbox"/> In view of observations of EAC regarding reduced use of forest land to the extent possible, the project area was reworked including reduction in area required for future use & boundary rationalisation. This exercise led to reduction in proposed project area from 729.40 Ha (as per TOR) to 547.38 Ha (as given in submitted EIA & EMP). <input type="checkbox"/> The project area of 547.38 Ha, includes the common barrier

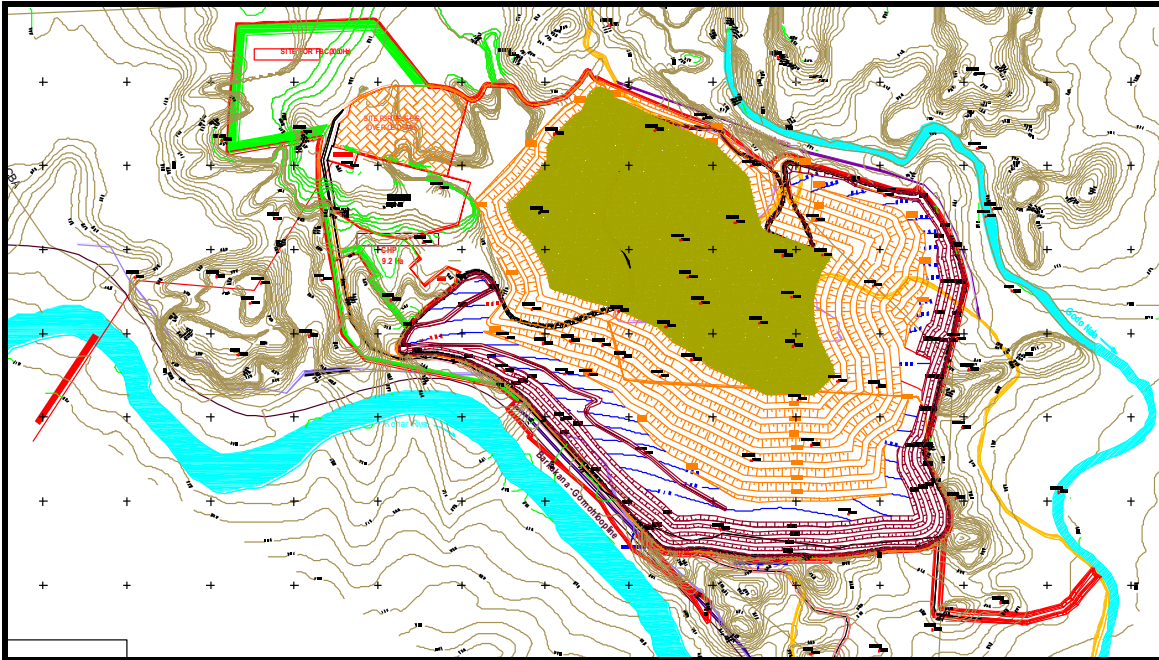
		<p>between Khasmahal & Konar quarries (26.94 Ha).</p> <p><input type="checkbox"/> The present EIA & EMP document has been proposed with an area of 547.38 Ha.</p>
2.	The RO, MoEF&CC Bhubaneswar has inspected the Khasmahal project on 23.08.2014 and Konar OCP on 04.09.2013. Another inspection for the Konar Expansion OCP was conducted on 17.06.2016. Certified EC Compliance report is awaited.	The copy of latest certified EC Compliance report is enclosed at Annexure-I (Khasmahal) & Annexure-II (Konar).
3.	A large area has been occupied for external OBD and internal dump also of a height of 90 m above ground level matching with a height of external OBD. Whereas, much area has been left as void of depth of 180 m. The Committee observed that the same needs to be re-worked with minimum land degradation for external OBD and in the form of mine void.	The matter has been examined in light of observations made by EAC. Please refer Annexure-III .
4.	The washery proposal has been tendered and the technology will be finalised as per the tender received. The committee desired for submission of approval for the technology to be submitted for perusal of Committee.	CCL Board has approved in its 437 th meeting on 20/21.02.2017 for setting up of 7.0 MTY Konar washery on Build-Own-Operate concept with freedom of beneficiation technology i.e., dry/wet/combo of dry and wet.
5.	<p>The raw coal transportation from mine will be as under:-</p> <p>(a) 1 million tonne coking coal from Konar washery by road approx. 8 km away.</p> <p>(b) 7 million tonne of non-coking coal from CHP to Konar washery by belt conveyor and washed coal will be conveyed by belt conveyor to the siding being made near the mine and would be loaded to railway wagons through silo. The Committee advised that the railway siding must come up within 3 years i.e. matching</p>	<p><input type="checkbox"/> Coking coal will be produced from seam-X & non-coking coal from seam VI/VII & VIII.</p> <p><input type="checkbox"/> CHP has been proposed near pit top to handle total coal production of this project.</p> <p><input type="checkbox"/> Non-coking coal @ 7.0 MTPA will be fed into proposed CHP for storage, reclamation and feeding to non-coking coal washery.</p> <p><input type="checkbox"/> The entire non-coking coal produced from Konar Expansion OCP will be washed in proposed 7.0 MTPA Konar washery.</p> <p><input type="checkbox"/> Washed non-coking coal from Konar Washery will be conveyed by</p>

	with the production of the non-coking coal.	<p>belt to railway loading silo at proposed Konar siding.</p> <p>❑ RoM Coking coal @ 1.0 MTPA (-100mm) will be transported to Kargali washery at about 9 km & washed coal despatch by rail from adjoining Kargali siding.</p>
6.	Action Plan along with the proposed budgetary allocation should be submitted for issues during Public Hearing out of CSR Budget of Rs 400 Lakhs as agreed.	The project will spend four crore towards CSR this year for both Karo and Konar. The action taken in respect of issues raised in Public hearing is at Annexure-IV.

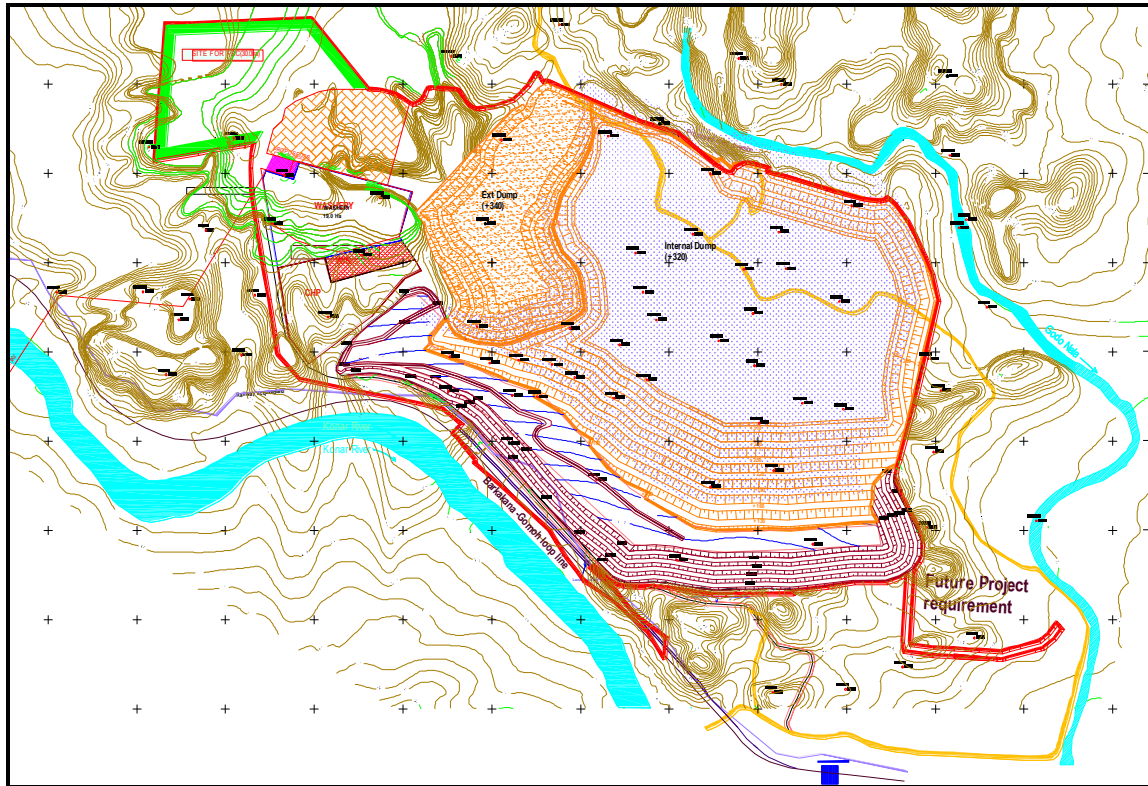
Annexure-III

Overburden Dump layout

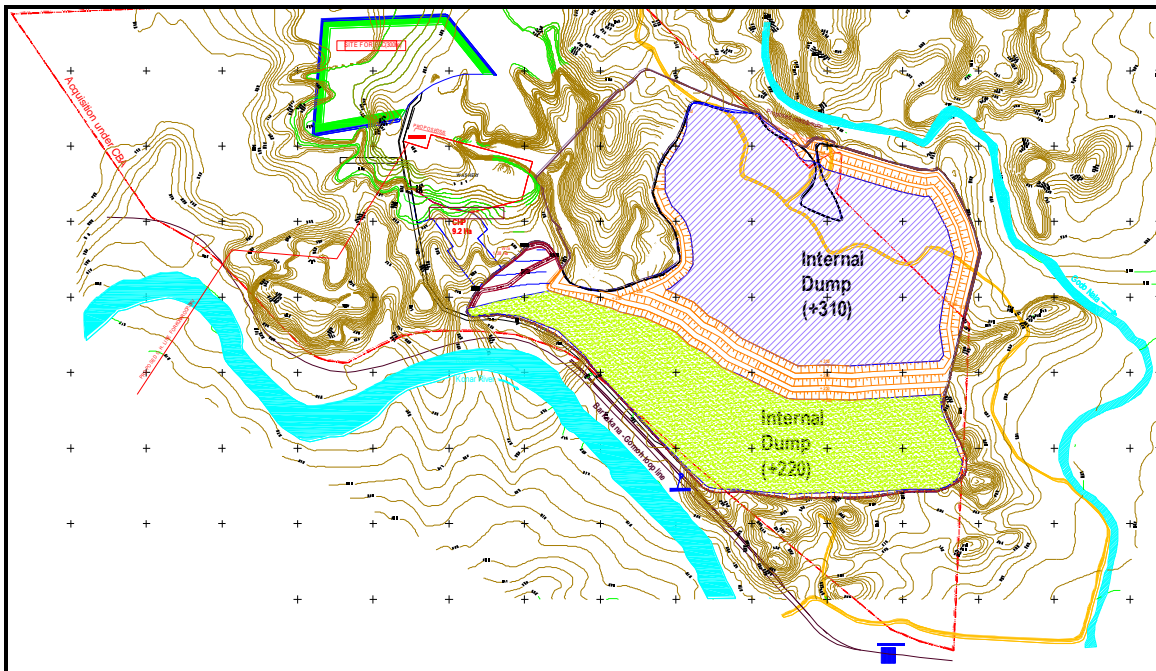
As proposed in approved Project at the end of mining in 17th year of project life



As proposed in EIA & EMP after 18th year to 25th year.



As proposed after observations of EAC during meeting on 23.06.2016



Dump rehandling at different stages

SN	Stage	Level with respect to adjoining ground RL	Remarks
1	In 17 th year at the end of mining	RL of dump at 340 m at the end of mining (30 to 80 m above ground level).	No re-handling.
2	In 18 th to 25 th year as proposed in the EIA & EMP	RL of dump reduced from 340 to 320 m after mining with rehandling (5 to 70 m above ground level). Reduction in void area from 105 Ha to 60.11 Ha.	8.1 mmc OB removed from internal dump to pack the eastern part of void.
3	In 18 th to 25 th year as desired by EAC	RL of dump reduced from 340 m to 310 m after mining & 100 % rehandling of external dump.(0 to 50 m above ground level)	Additional 8.2 mmc of OB removed from internal dump. 23.21 mmc OB removed from external dump. 61.44 Ha of area earlier covered by external dump becomes completely free with an average RL ranging from 320 m to 250 m (0 to 5 m above ground level).

Annexure-IV

Action Plan along with the proposed budgetary allocation for meeting the commitments on issues raised during Public Hearing

SN	Name	Question Asked	Reply	Action taken
1	Vikash Singh, Village Bokaro Thermal	All facilities should be given to raiyat who have given their land. Cases filed against Lodharbeda Villagers should be withdrawn. All the measures for pollution control described in booklet should be followed.	All facilities will be provided to raiyat who have gave their land as per provision of company. All pollution control measures will be definitely followed. Respective department will do inspection from time to time.	Employment to 93 land losers already given. Another 17 in process as CIL R&R Policy. Facilities like water supply, street lighting, road connectivity, educational & medical facilities provided under CSR. Yearwise CSR expenditure:- 2013-14: Rs 171.58 Lakhs 2014-15: Rs 224.30 Lakhs 2015-16: Rs 157.03 Lakhs All pollution control measures as per EIA & EMP will be followed.
2	Shri Sujit kumar Ghosh, Gandhinagar	All the standard pollution control measures mentioned in the booklet provided during public hearing should be followed.	All pollution control measures standard will be implemented and from time to time its inspection will be done by competent authority.	Action taken for tendering of four 28 kl mobile mist type sprinklers for dust suppression. Regular monitoring of conditions of compliance will be done. Last inspection was done on 17.06.2016 by MoEFCC, Ranchi Regional Office.
3	Shri Bhagirath Prasad Sharma, Gobindpur panchayat	Proposed washery construction should be in the form of model washery. Basic problem of villagers should not	All new technique will be used in proposed washery. New washery would be developed as model washery.	Wet processing with zero discharge/ dry technology will be implemented. Basic problems of villagers like water supply, road. Health &

		be neglected.	Villager's rights will not be neglected.	educational facilities etc will be provided under CSR scheme. Direct & indirect employment through contractual jobs & skill development programs have been initiated.
4	Shri Anant Lal Mahto, Narayanpur	Verification work is pending. First verification work should be completed. Job and compensation should be given. After then only mine expansion and washery construction work should be started. Otherwise we will protest.	Verification work of raiyat land is almost completed. Till now 81 jobs have been given in lieu of verified land. 12 other people have got placement. Verification work of Gair Majura land is under process. There are many claimant of single land. There is delay in identification of original raiyat. But raiyats will surely get justice.	Employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication.
5	Shri Dashrath Ram Dhasi, Bermo East, panchayat	There should be separate road for coal transportation. Local people are suffering from many types of diseases due to pollution. There should be arrangement for appropriate treatment of them.	Transportation of coal from above proposed coal washery will be through conveyor belt. Therefore, it will cause almost negligible air pollution. Arrangement of treatment of local people is ensured in CCL hospital.	Separate road bypassing residential area has been identified for coal transport in short term. The quantum of road transport of coal is expected to be reduced to about 1 MTPA from present 2.7 MTPA. Coal transport @ 7 MTPA is proposed by belt conveyor and rail.
6	Shri dilip Yadav, Jaridih Bajar	Konar project opened in 2012 but still displaced,	Facilities of all types are being given to villagers nearby the	Employment to 93 land losers already given. Another 17 in process as

		unemployed youngsters did not get anything. We oppose expansion of project and washery construction. First, people should get their rights thereafter washery construction and project expansion should be done.	projects. CCL has made arrangement for different types of training and education to unemployed youth.	CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication. Direct & indirect employment through contractual jobs & skill development programs have been initiated.
7	Md. Hayat Ansari, Barwabeda	In lieu of land, 81 people have been placed and employment will be given to 110 people. This is unjustified. CCL is cheating us.	Jobs was given and proposed to only those people whose land have been verified. If more land is verified, then jobs will also increase.	Employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication. Major part of project area is forest land, so scope of employment is limited.
8	Shri Amrit Mahato, Baidkaro Basti	Survey work is under process in Baidkaro. CCL should give 10% of their profit to raiyat.	According to company provisions, jobs & compensation are being given to raiyat.	As per Companies Act, 2% of retained profit or Rs 2/tonne production of previous year is spent under CSR activities.
9	Shri Chedi Mahato, Govindpur	Earlier, in phase-II 14 people were given employment without verification of land. But we are asked for verification of land is necessary to get	Job was given with different rules in different time. Now verification process has become necessary. According to company provisions	Employment to 85 land losers was given in Ph-II under one time agreement in 1980. Besides this, employment to 93 land losers already given in K. Another 17 in process as CIL R&R

		job. How many local people will get job after washery construction? It should be disclosed first.	job is provided to one people for two acres.	Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication. Major part of project area is forest land, so scope of employment is limited.
10	Shri Thakur Mahato, Kurpaniya Basti	Assurances were given to us earlier also. Raiyat are wandering here and there due to pending verification. Our agricultural land has become unfertile due to Konar project. CCL authority said that all those land does not come under our leasehold area. Job can not be given for that land.	Jobs can not be given for land falling outside mine lease area. Jobs will be provided against only that verified land which will be use by company in the coming next five years.	Employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication. Major part of project area is forest land, so scope of employment is limited.
11	Smt. Sugiya Devi Harijan tola, Jaridih Basti	From many years our ancestors are doing agriculture on this land for their livelihood. But forest department claims their right on that land. In this way we will not get jobs. Our problems should also be considered.	In the year of 2009 Jharkhand government issued a letter according to which if any family has been using any land for their livelihood for 30 years and if papers of that land is available with raiyat then that land can be recognized as raiyat land after	Employment to 85 land losers was given in Ph-II under one time agreement in 1980. Besides this, employment to 93 land losers already given in Konar Exp OCP. Another 17 in process as CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be

			investigation from additional district collector committee.	given after authentication. Major part of project area is forest land, so scope of employment is limited.
12	Shri Basudev Mahato, Lodarbhedha	It should be clarified whether Gairmajrua land of Kurpaniya, Jaridih, Lodarbhedha villages belongs to raiyat, state government or CCL.	Ownership right of notified land is with forest department. If verification process of Gairmajrua khas, aam, and jungle jhadi is in favor of raiyat then ownership rights of land belong to raiyat. CCL can use only transferred land for coal mining.	If verification/authentication of Gairmajrua khas, aam, and jungle jhadi is in favour of raiyat then ownership rights of land belongs to raiyat. CCL gives employment & compensation against authenticated land @ 1 employment for every 2 Acres.
13	Shri Jugal Kishore Mahato. Bermo Basti	Raiyat have not got anything in lieu of earlier acquired land. Bokaro colliery hospital was converted into school. Unemployed people are not getting employment.	Documents related to acquired land should be submitted in regional office. If all documents found true, then job and compensation will be given as per company law.	Employment to 85 land losers was given in Ph-II under one time agreement in 1980. Besides this, employment to 93 land losers already given in K. Another 17 in process as CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication. Major part of project area is forest land, so scope of employment is limited.
14	Md. Kamaluddin,	Mine should be expanded. Coal	After land verification jobs and	Jobs and compensation will be given as per CIL

	barwabeda	washery should be constructed but raiyat should get their right.	compensation will be given according to provisions of company.	R&R Policy/ company rules after land verification. Direct & indirect employment through contractual jobs & skill development programs have been initiated.
15	Shri Idrish Ansari, Barwabeda	We don't have any problem from washery construction but raiyat should get their right. Jobs should be given after land verification.	Land verification is under process. After land verification jobs and compensation will be given to raiyat.	Jobs and compensation will be given as per CIL R&R Policy/ company rules after land verification. Direct & indirect employment through contractual jobs & skill development programs have been initiated.
16	Md. Lateef Ansari, Govindpur panchayat	In school no fees relaxation is given to rural children. No treatment is given to poor people in hospitals. All facilities should be given to local villagers.	CCL established school have quota for rural and poor children. There is provision under CSR for treatment of poor villagers. There is separate room for it in hospital.	CCL establishes schools & also gives aid to schools, in which there is quota for rural and poor children. There is provision under CSR for treatment of poor villagers. There is separate cell in the hospital for this purpose. Medical camps are also held in rural areas in which free consultation & medicines are supplied. Expenditure on medical services during 2014-15 was Rs 8.94 Lakhs & in 2015-16 Rs 4.19 Lakhs under CSR.
17	Smt. Farhat Bano, mukhiya, Bermo west	We want expansion of mine. But all villagers should get their right. List of	List of 1060 displaced people is prepared from five villages. It will be	Only 2 villages namely Barwabera & Kurpania Basti are proposed to rehabilitated in which 685

	panchayat	displaced people is not correct. It should be rectified.	checked again and if any family left then it will be added to list.	families will be shifted for which provision of Rs 63.18 Crore has been kept. Identity cards are being issued to PAFs for this purpose.
18	Md. Ahmad Hussain, Bermo Basti.	Job and compensation to raiyat was not given for 12.5 acre land in Khata no 65 and 50 Decimal land in Khata no 35. It is told that above land is Gairmajrui as survey was not done here. Mining should be expanded and washery should be constructed but we should get our rights. After mining land should be reclaimed and should be returned to raiyat. Displaced people should get displacement certificate.	All documents related to above land with application should be submitted in regional office and should be sent to Circle officer office for verification purpose. CCL is making identity card for displaced people of Konar.	Job & compensation to the raiyats is provided as per the authentication by State Govt including GM land. Identity cards are being issued to displaced families. The land will be reclaimed after mining period of 17 years and thereafter handed over to Govt as per prevailing statute.
19	Md. Liyakat ansari, Muri nagar	Documents of Govindpur displaced people are deposited with CCL. They should get jobs and compensation. Verification process should be completed soon.	All documents provided by raiyat have been sent to circle office for verification. After verification we will start process for giving jobs and compensation.	Employment to 85 land losers was given in Govindpur. Any further claim will be considered after verification.

		Raiyat should get their right.		
20	Smt Chinta devi. Zila parshad member number-7	For the development of country mine should be expanded and washery should be constructed. Displaced people should get compensation in lieu of land. All standard pollution control measures mentioned should be followed perfectly.	Jobs and compensation is given to displaced raiyat as per provision of the company All standard pollution control measures mentioned will be followed perfectly. It will also be inspected from time to time.	All pollution control measures as per EIA & EMP will be followed. Regular monitoring of conditions of compliance will be done. Last inspection was done on 17.06.2016 by MoEFCC, Ranchi Regional Office.
21	Shri Kashi Nath Kevat, Chalkari basti	Whoever is present in public hearing don't want to oppose construction of washery, expansion of mine but earlier displaced people didn't get their right yet. Verification work is pending. Circle officer should visit villages for expediting the verification process. Cases on Lodharbeda raiyat should be withdrawn. The ownership rights should be given to general category raiyat and tribal	Verification work is getting delayed. One of the reasons for delay in verification work is that since last 6 months' circle officer was not posted in Bermo district. Work was managed by giving charge. Apart from this many claimants had come through fake documents for a single land. Inspection is being done carefully so that any legitimate claimant not left behind and illegitimate not get the benefit. This work will take time.	Job & compensation to the raiyats is provided as per the authentication by State Govt including GM land, which sometimes gets delayed. Presently, the rate of compensation has been enhanced & current rate is Rs 8.0 to 9.0 Lakh per Acre.

		<p>raiya who have occupied land from more than 75 years and 25 years respectively. 30-40 thousand per acre of land compensation is very less. Compensation amount should be increased.</p>	<p>Original raiya will get their rights. Compensation is fixed by government.</p>	
22	Shri Manoj Singh Pawar, Gandhinagar	<p>Here raiya are facing two types of problems. One is of land verification and another is of pollution. It should be taken care off.</p>	<p>Land verification work is under progress. Instruction have been given to CCL executives for pollution control. Pollution control measures will be followed strictly.</p>	<p>Employment to 85 land losers was given in Ph-II under one time agreement in 1980. Besides this, employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication.</p> <p>Major part of project area is forest land, so scope of employment is limited.</p>
23	Shri Suraj Mahato, Pichri Panchayat	<p>There should be clear description of forest department land and raiya land in Konar project. Clarification should be given about number of jobs village wise. Case</p>	<p>One job is given for every two acre of land. Employment will be given to every village as per land acquired from village after all land owners are being identified. This is one of the</p>	<p>Issue of identity cards has started. Employment to 85 land losers was given in 1980. Besides this, employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18</p>

		on Lodarbhedha villagers should be withdrawn. Physical verification of land should be done in presence of villagers so that original owner of land can be identified. Konar project may be expanded but tenants must also get their due.	important reason of delay in verification process. Process of issuing identity cards to displaced persons of Konar has begun.	Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication.
24	Shri Dhaneswar Mahto, Jaridih Basti	Verification of earlier acquired land is still pending, it should be done. Pollution level has increased in the area. Pollution control measures should be implemented. Due to absence of Nallah near roadside all dust particles are getting deposited in our field with water.	Verification work is under progress. Instructions have been issued to CCL management for decreasing pollution. All pollution control measures will be strictly followed.	Issue of identity cards has started. Financial provision of Rs 27.28 Crore has been made for pollution control measures. Tender for purchase of equipment already initiated. Separate road bypassing residential area has been identified for coal transport. The quantum of road transport of coal is expected to be reduced to about 1 MTPA from present 2.7 MTPA. Balance coal transport is proposed by belt conveyor to washery & beyond by rail.
25	Md. Saffiuruddin, Barwabeda	Villagers are getting benefited due to start of Khasmahal project but benefit has not reached to all villagers. Forest	Konar project expansion and washery construction will definitely give direct or indirect employment to	Issue of identity cards has started. Employment to 178 land losers was given in past. Another 17 is in process as per CIL R&R Policy. Authentication of 13.18

		department is making their claims on land which was used by our ancestors from many years. Washery should be constructed, mine should be expanded, but we villagers should get justice.	nearby villagers. Land is getting verified. It will be established after verification whether land is of forest department or raiyat. If it is found to be of raiyat then job and compensation will be given to them as per provisions of the company.	Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication.
26	Shri Kamlesh Tiwari, MP nominee.	Pain of displaced is clearly reflected in public hearing. There is anger in them due to pending verification of earlier acquired land. Konar project expansion, washery construction is necessity of the country but feeling of displaced person should be respected. They should not be deprived of their rights; it should be taken care off. Verification work should be completed within time so as to give job and compensation to raiyat as everybody who is present in public hearing is in	There is definitely delay in verification process. Verification work has to be done as per rules and within the boundaries of law. Multiple claimants of single land and lack of manpower in departments dealing with verification process are main cause of this delay. Still full effort is being made with available resources for early completion of verification process. It is also ensured that injustice should not be done to anybody and rights are given to everybody.	Issue of identity cards has started. Employment to 85 land losers was given in 1980. Besides this, employment to 93 land losers already given. Another 17 in process as per CIL R&R Policy. Authentication of 13.18 Acres of 9 tenants by the State Govt is in final stage. Employment & compensation will be given after authentication.

		favor of project expansion and washery construction.		
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Government of India
Ministry of Environment, Forests and Climate Change (MoEF&CC)
Regional Office – Ranchi

MONITORING REPORT

PART I

DATA SHEET

File No: No-103-236/09/EPE

- 1 Project Type : *Coal Mining*
~~River valley / Mining / Industry /~~
~~Thermal / Nuclear / Other Specify~~
- 2 Name of the project : *Khasmahal Expansion Project*
- 3 Clearance letter(s) / OM No. and dated : *No.J-11015/217/2007-IA.II(M) dated 02.08.2010*
- 4 Locations
Taluk(s) : *Kurpani Basti and Bermo Basti, Tehsil,*
District : *Bermo, Dist. Bokaro*
State (s) : *Jharkhand*
Latitudes / Longitudes : *Latitudes 23° 46' 0".N to 23° 48' 38"N and Longitudes of 85° 54' E to 85° 56' E (as reported)*
- 5 Address of correspondence
a. Address of concerned project Chief Engineer (with Pin Code & telephone / telex / fax numbers : *Khasmahal Exp OCP
B&K Area, CCL
P.O- Sunday Bazar Block-Bermo,
District- Bokaro, Jharkhand PIN-829127*
b. Address of Executive Project Engineer/ Manager (with Pin Code/fax numbers) : *Khasmahal Exp OCP
B&K Area, CCL
P.O- Sunday Bazar Block-Bermo,
District- Bokaro, Jharkhand PIN-829127*
- 6 Salient features:
a. Salient features of the project : *Khasmahal Opencast project (0.60 MTPA with peak production 1.5 MTPA)*
b. of the environmental management plans : *Covered in the EIA/EMPs submitted to the Ministry of Environment, Forests and Climate Change (MoEF&CC) for approval at the time of grant of Environmental Clearance (EC)*
- 7 Breakup of the project area:
a Project area : *318.71 ha*
- 8 Break up of project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans
a SC,ST/Adivasis : *Not Applicable*
b Others : *Not Applicable*

- 9 Financial Details:
- a Project cost as originally planned and subsequent revised estimates and the years of price reference : *Capital cost of the project is Rs. 60.04 crores (as per EC accorded)*
- b Allocations made for environmental management plans, with item wise and year wise breakup : *Capital cost Rs 206.38 Lakhs. (as per EC accorded)*
- c Benefit cost ratio / internal rate of return and the years of assessment : *10.91%, 2007*
- d Whether (c) includes the cost of environmental management as shown in (b) above : *Yes*
- e Total expenditure on the Project so far : *63.82 Crore*
- f Actual expenditure incurred on the environmental management plans so far : *5.05 Crore*
- 10 Forest land requirement:
- a The status of approval for a diversion of forest land for non-forestry use : *Forestry clearance has been obtained for 174.88 ha & 26.94 ha for Khasmahal OCP(As reported)*
- b The status of compensatory afforestation, if any : *Amount paid Rs 2.604 Cr for Compensatory Afforestation (As reported)*
- c The status of clear felling : *Details not made available*
- d Comments on the viability and sustainability of compensatory afforestation programme in the light of actual field experience so far : *Details not made available*
- 11 The status of clear felling in non-forest area (such as submergence area of reservoir, approach road), if any, with quantitative information : *Details not made available*
- 12 Status of construction:
- a Date of commencement : *Seam permission of Khasmahal obtained from Ministry of Coal on 29/04/93 vide no/cc/cwo/28/cs/93 (as reported).*
- Date of completion (actual and / or planned) : *Ongoing project, proposed for expansion.*
- 13 Reasons for the delay if the project is yet to start. : *Project is in operation*
- 14 Date of site visit:
- a The dates on which the project was monitored by the Regional Office on previous occasions, if any : *23.08.2014*
- b Date of site visit for this monitoring report : *17.06.2016*

Part-II

The following points need special attention:

- 1. It is requested to submit the Approval of the flood and irrigation department for continuation of mining operations to the Regional Office (Specific Condition i).*
- 2. A three tier green belt should be developed on both side of the road as per the condition (Specific Condition viii).*
- 3. Project authority yet to provide high efficiency water sprinkles system at CHP and Railway siding. It requires urgent attention (Specific Condition ix).*
- 4. Project authority should make a plan to raise greenery covering an area in reclaimed external OB dump (99.16 ha), back filled area (145.36 ha) along ML boundary, embankment, safety zone (25.18ha) and undisturbed area, along roads and infrastructure, green belt (58.39 ha) by planting native species from the 70 species found in the original ecosystem during pre-mining phase. It requires urgent attention (Specific Condition xii).*
- 5. Project authority should ensure that the backfilled area should be brought to 20 m above ground level (Specific Condition xiii)*
- 6. Rain water harvesting structures shall be erected within and around the ML including check dams for recharge of ground water (Specific Condition xiv).*
- 7. Project Authority should provide seasonal variation / changes in the water level by constructing Peizometres as per the condition. Quality of ground water should also be monitored as stipulated and report to be submitted to the Regional Office. It requires urgent attention (Specific Condition xv).*
- 8. Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop*

connected to a recharge pit without proper separation. ETP is yet to be provided to the CHP. It requires urgent attention (Specific Condition xvi).

9. *Health check up for occupational diseases and hearing impairment, through an agency such as NIOH, Ahmedabad should be carried out on urgent basis and report to be submitted to Ministry, Regional office and DGMS. It requires urgent attention (Specific Condition xviii).*
10. *It is requested to submit detailed CSR plan, CSR activity and expenditure for Khasmahal Opencast Project (year wise and item wise) to the Regional Office and uploaded on the website. It requires urgent attention (Specific Condition xix).*
11. *It is requested to submit the Mine closure plan to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure (Specific Condition xxi).*
12. *Capital expenditure reported is 85.24 lakhs whereas as per the EC accorded allotted amount is 206.38 lakhs. Year wise capital and recurring expenditure for environmental measure for Khas Mahal Opencast project to be uploaded on company website. (Specific Condition xxii).*

General Condition:

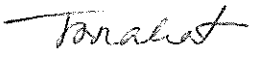
1. *Monitoring of heavy metals should be carried out as per the condition (General Condition iii).*
2. *Submitted data on ambient air quality indicates that PM_{10} exceeds the limits of NAASQ for June 2015 in all the station and in P O Office in Dec15 and March 16. $PM_{2.5}$ should be monitored regularly. Ambient Air Quality should be monitored as per NAAQS-2009. The project authority should be very*

- particular of doing regular monitoring of ambient air quality. It requires urgent attention (General Condition iv).*
3. *It is requested to monitor noise level in the work environment and report submitted to the Regional office (General Condition v).*
 4. *Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop connected to a ground water recharge pit without proper separation. It requires urgent attention. Analysis Data of workshop effluent to be submitted to the Regional Office (General Condition vi).*
 5. *During visit it was observed that Vehicles used for transporting the coal are not covered inspite of the fact that tarpoline is available in trucks. Project authority should ensure that Vehicles plying for carrying coal should be covered and have a valid PUC (General Condition vii).*
 6. *It is requested to provide details of communication sent to concerned Panchayat/ Zila Parishad, Municipal Corporation or Urban Local Body and Local NGO (General Condition xiii).*
 7. *It is requested to provide information regarding display of clearance letter at the District Industry Centre, Collector Office/ Tehsildars Office for 30 days. The same is being requested (General Condition xiv).*
 8. *The monitoring data of environmental quality parameters (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameter should be displayed at the entrance of the project premises and mine office and in corporate office and on company's website. It requires immediate attention (General Condition xv).*

9. *Six monthly compliance should also be submitted to zonal office of CPCB also. (General Condition xvi).*

Other observation:

- 1. The details of compensation paid to the land outsees to be submitted to the Regional Office.*
- 2. Copy of the recent consent to operate to be submitted to the Regional Office.*


(Dr. T.H. Mahato)
Scientist C

PART - III

Descriptive Report on status of compliance to conditions of environmental clearance and environment management.

1. Name of the project	:	<i>KHASMAHAL OPENCAST PROJECT</i>
2. No & date of environmental clearance	:	<i>J-11015/217/2007-IA.II (M), dated. 02.08.2010.</i>
3. <u>Address for correspondence</u>		
(a) Corporate Office	:	<i>Darbhangha House, CCL, Ranchi</i>
(b) Project Office	:	<i>Khasmahal Opencast Project, PO-Sunday Bazar, Dist- Bokaro- - 829127 , Jharkhand</i>
4. <u>Date of site visits:</u>		
(a) Dates of earlier monitoring	:	<i>23.08.2014</i>
(b) Date of Monitoring	:	<i>17.06.2016</i>

PRESENT STATUS OF THE PROJECT:

The project was visited on 17.06.2016 along with Mr. Dilip Kumar, Manager, Khasmahal OCP, Mr. S P Sarangi, SO(P&P), Piparwar Area, Mr. S Singh, HOD(Env), CCL HQ, and other senior officers of the project. The latest emission and discharge consent submitted was obtained on 18.11.2003 vide letter no DB/8375/w/c-655 and, DB/8375/w/c-656 which was valid from 01.01.2002 to 31.12.2002 respectively. Project authority has applied for consent to operate from Jharkhand Pollution control board dated 30.12.2015. **Consent to operate is yet to be received from the state pollution control board.** Based on the site visit, documents provided and discussion held with project officials, status of compliance to various environmental clearance conditions, is as follows:



A. Specific Condition:

Condition (i) Mining shall be carried out as per statute from the streams/nallahs flowing within the lease and along the diverted nallah along the lease boundary. No OB/topsoil shall be dumped along the side of the river/nallah. Approval of the flood and irrigation dept shall also be taken for continuation of mining operations.

Status of compliance:

*As per the information provided Mining is presently being carried out at about 1000m from Godo nallah. There is no diversion of nallah along the lease boundary. No OB/topsoil is being dumped along the side of the river/nallah. However, **It is requested to submit the Approval of the flood and irrigation department for continuation of mining operations to the Regional Office.***

Condition (ii) No washery shall be established within the ML without prior environmental clearance from the Ministry.

Status of compliance:

It has been submitted that no washery is established in the present ML area of project.

Condition (iii) Top soil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used for reclamation and development of green belt.

Status of compliance:

No top soil is generated at present. It has been observed that the present bench of OB contains highly degraded (morrum) material which is spread over backfilled area for biological reclamation.



Condition (iv) OB shall be stacked at earmarked one external OB dump site of 99.16 ha in Konar OCP ML area shall be a max height of 75m. A slope stability study shall be undertaken to increase the dump height and the report furnished to the ministry for increasing dump height beyond 75m. The ultimate slope of the dump shall not exceed 28° . Monitoring and management of reclaimed existing dump site shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forest and its Regional Office located at Bhubaneswar on yearly basis.

Status of compliance:

During the site visit, it has been observed that overburden is used for backfilling in the mine. It has been stated that total area of backfilled is 65 Ha. It is also reported that out of 65 Ha of backfilled area 30.94 Ha has been afforested by State Forest Department.

Condition (v) 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 utilized for watering the mine area, roads, green belt development etc. The drain shall be regularly desilted and maintained properly.

Status of compliance:

It has been stated that all the mine water is collected to the mine sump acting as a siltation pond. Project authority has informed that the present volume of the mine sump is 45000 cubic meter. The water is used for sprinkling in roads and mining area.

Condition (vi) Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rain fall 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.

Status of compliance:

It has been informed that all the mine water is collected to the mine sump acting as a siltation pond. The present volume of the mine sump is 45000 cubic meter. The water is used for sprinkling in roads and mining area. It was also stated that the sump capacity is designed as per peak rainfall and is sufficient for safe operation of mine.

Condition (vii) 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.

Status of compliance:

Toe wall of dimension 1000m X 0.5 m X 1.0m has been constructed.

Condition (viii) Mineral transportation from mine by road shall use trucks of a minimum capacity of 20 T. All internal roads shall be metal topped. A 3-tier Green belt shall be developed on both sides of the roads.

Status of compliance:

*Coal transportation inside the mine from face to coal stock yard is by dumpers. From coal stockyard, coal is being transported by trucks to different consumers like DVC, BTPS and railway siding. The road to siding is black topped. Plantation along road has been carried out in some places. **A three tier green belt should be developed***



on both side of the road as per the condition.

Condition (ix) High efficiency water sprinkling system provided to check fugitive emissions at the transfer points, haulage roads etc. shall be provided for crushing/loading operations for dust control at the CHP.

Status of compliance:

*Water sprinkling is done by 02 numbers of mobile water sprinklers of capacity 28 KL and 12 KL. Crusher at CHP fitted with water sprinkler system. **Project authority yet to provide high efficiency water sprinkles system at CHP and Railway siding. It require urgent attention.***

Condition (x) Drill shall be wet operated only.

Status of compliance:

The mine has 02 nos. of drills which are fitted with wet drilling arrangement.

Condition (xi) Controlled blasting shall be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.

Status of compliance:

It has been stated that controlled blasting is practiced and Nonels of different sizes and CED are used for control of ground vibrations and to arrest the fly rocks and boulders.

Condition (xii) The total area that shall be brought out under a forestation at the time of mining closure shall include reclaimed external OB dump (99.16 ha), back

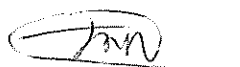
filled area (145.36 ha) along ML boundary, embankment, safety zone (25.18ha) and undisturbed area, along roads and infrastructure, green belt (58.39 ha) and in township outside the lease by planting native species from the 70 species found in the original ecosystem during pre-mining phase in consultation with the DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.

Status of compliance:

*It has been stated that plantation is carried out regularly. Plantation details provided are 1) Old plantation—5300 saplings in 3 ha area; 2) During 2006-07 - 60500 saplings in 27.24 ha area 3) During 2012-13 in 3.7 ha area. It has also been informed that out of 65 Ha of backfilled area 30.94 Ha has been afforested by State Forest Department. The major species are Chakundi, Bamboo, Siris, Aonla, Shisham, Kaju, Khair, Bakain, Ber, Bel, Karanj, Jamun, Neem, etc. **Project authority should make a plan to raise greenery covering an area in reclaimed external OB dump (99.16 ha), back filled area (145.36 ha) along ML boundary, embankment, safety zone (25.18ha) and undisturbed area, along roads and infrastructure, green belt (58.39 ha) by planting native species from the 70 species found in the original ecosystem during pre-mining phase. It requires urgent attention.***

Condition (xiii) A progressive mine closure plan shall be implemented by reclamation of quarry area of 145.36 ha which shall be backfilled and brought to 20m above ground level and afforested 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.

Status of compliance:



*It has been submitted that a mine closure plan has been prepared and approved at a cost of Rs. 2269 lakh. Out of 65 Ha of backfilled area 30.94 Ha has been afforested by State Forest Department. **Project authority should ensure that the backfilled area should be brought to 20 m above ground level.***

Condition (xiv) No ground water (bore well) shall be used for mining operations and any additional water requirement during mining operations shall be met from mine sump water. Rain water harvesting structures shall be erected within and around the ML including check dams for recharge of ground water in case the water table shows the declining trend.

Status of compliance:

*It was informed that no ground water (bore well) is used for mining operations. At present water requirement for sprinkling on roads & mining areas is met from the water in the mine sump of 45000 cubic meter capacities. Rain water recharging pit constructed near PO office. However, **Rain water harvesting structures including check dams should be erected within and around the ML including check dams for recharge of ground water.***

Condition (xv) Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometres. The monitoring for quantity shall be done four times in a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.



Status of compliance:

*Project authority has been submitted that dug well water level monitoring data which indicate a variable water level. **Project Authority should provide seasonal variation / changes in the water level by constructing Peizometres as per the condition. Quality of ground water should also be monitored as stipulated and report to be submitted to the Regional Office. It requires urgent attention.***

Condition (xvi) The Project authority shall meet water requirement of nearby village(s) in case in the village wells go dry due to dewatering mine.

Status of compliance:

It has been informed that mine water will be discharged to the villagers if needed.

Condition (xvii) Sewage treatment plant of adequate capacity shall be installed in the colony. ETP shall also be provided for workshop and CHP wastewater. Treated wastewater meeting prescribed norms only shall be permitted to be discharged into the natural water course.

Status of compliance:

Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop connected to a recharge pit without proper separation. ETP is yet to be provided to the CHP. It requires urgent attention.

Condition (xviii) Besides carrying out regular periodical health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected in active mining operations shall be subjected to health



check-up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the result reported to this Ministry and to DGMS.

Status of compliance:

It has been stated that Periodical Medical Examination is conducted regularly at area regional hospital as per requirement of Mines Rules 1955.

Year wise PME is reported as

<i>Year</i>	<i>Target</i>	<i>Achievement</i>
2012	148	152
2013	110	110
2014	123	144
2015	123	99

However, health check up for occupational diseases and hearing impairment, through an agency such as NIOH, Ahmadabad should be carried out on urgent basis and report to be submitted to Ministry, Regional office and DGMS. It requires urgent attention.

Condition (xix) A detailed CSR plan shall also be prepared for and in consultation with local communities; CSR should be for a minimal Rs. 5/tonne of coal produced annually which is to be adjusted for the depreciation in the value of rupee over the life of the project. The activities undertaken for the specific villages adopted under CSR should be displayed on the company website and updated at least once a year.

Status of compliance:



About Rs. 1.57 Crore, 2.24 Crore and 1.71 Crore expenditure has been reported & CSR activities by B&K Area in financial year 2015-16, 2014-15 and 2013-14 respectively. However, **it is requested to submit detailed CSR plan, CSR activity and expenditure for Khasmahal Opencast Project (year wise and item wise) to the regional office and uploaded on the website. It requires urgent attention.**

Condition (xx) 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 be prepared once in 3 years (for any one particulars season which is consistent on the time series) and the report submitted to MOEF and its Regional Office at Bhubaneswar.

Status of compliance:

Project authority has submitted land use pattern for the year 2011 and 2014 based on satellite data carried out by CMPDI.

Condition (xxi) A final mine closure plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval

Status of compliance:

It was reported that mine closure plan has been prepared and approved at a cost of Rs 2269 lakh. It is requested to submit the Mine closure plan to the Ministry of Environment, Forest and Climate Change 5 years in advance of final mine closure.



Condition (xxii) A minimum Rs.206.38 lakhs earmarked for capital costs shall be utilized for environmental pollution control measures and an annual recurring budget for environmental measures shall be provided till end of mine life and the details of expenditure thereon shall be furnished as part of the monitoring report submitted to MOEFRO, Bhubaneswar. The details shall also be uploaded on the company website.

Status of compliance:

*Project authority has submitted an expenditure of amount of **Rs 85.24 lakh as a capital expenditure** and Rs 24.198 lakhs as recurring cost for the year 2015-16 and Rs 19.323 lakhs as recurring cost for the year 2014-15 on statutory fee, water sprinkling/dust control and environmental monitoring. **However, it is yet to be uploaded on the website.***

B. General Condition

Condition (i). No change in technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.

Status of Compliance:

There has been no change in mining technology.

Condition (ii). No change in the calendar plan including quantum of mineral coal and waste being produced shall be made.

Status of Compliance:

The project has reported the following coal production for the last three years.

Year	Coal in MT	OB (Mm3)
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2013-14	1.0	0.64
2014-15	1.22	1.26
2015-16	1.49	1.23

Condition (iii). Four ambient air quality monitoring station shall be established in the core zone as well as in the buffer zone for monitoring PM₁₀, PM_{2.5}, SO₂, NO_x. 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 metal such as Hg, As, Ni, Cd, Cr, in particulates shall be carried out at-least once in six months

Status of Compliance:

*Four ambient Air quality monitoring stations have been established at Rest House, PO office, Barwabera Village and LodharBera village. However, **Monitoring of heavy metals should be carried out as per the condition.***

Condition (iv). Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x and heavy metal such as Hg, As, Ni, Cr, etc.) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhubaneswar 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 recognized under the EP Rules, 1986 shall be furnished as part of the compliance report.

Status of Compliance:

*Project Authority has been submitted data on ambient air for quarter ending June 15, Sep 15, Dec15 and March 16 for PM₁₀, PM_{2.5}, SO₂ and NO_x. **Submitted data***



indicates that PM₁₀ exceeds the limits of NAASQ for June 2015 in all the station and in P O Office in Dec15 and March 16. PM2.5 data reported for quarter ending Dec15 and March 16. PM2.5 should be monitored regularly. Ambient Air Quality should be monitored as per NAAQS-2009. Data on heavy metal such as Hg, As, Ni, Cr, etc should be monitored and report submitted regularly. The project authority should be very particular of doing regular monitoring of ambient air quality. It requires urgent attention.

Condition (v). Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operation, operation of HEMM etc. shall be provided with the plugs/muffs.

Status of Compliance:

Noise levels are being monitored at three location at Rest House, PO office, and Lodhar Bera village. Project Authority has been submitted data on ambient Noise for quarter ending June 15, Sep 15, Dec15 and March 16 . Noise levels are below 85 dBA. However, it is requested to monitor noise level in the work environment and report submitted to the Regional office.

Condition (vi). Industrial waste water (workshop and wastewater from the mine) shall be properly collected, and treated so as to confirm to the standards including for heavy metals before discharge prescribed under GSR 422(E) dated 19th May 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents.

Status of Compliance:



Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop connected to a ground water recharge pit without proper separation. It requires urgent attention. Analysis Data of workshop effluent to be submitted to the Regional Office. Analysis report of mine discharge water for 26 parameter has been submitted for quarter ending June 15, Sep 15, Dec15 and March 16. The values reported are within range.

Condition (vii). Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transportation of mineral shall be covered with tarpaulins and optimally loaded

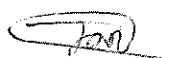
Status of Compliance:

During visit it was observed that Vehicles used for transporting the coal are not covered inspite of the fact that tarpoline is available in trucks. Project authority should ensure that Vehicles plying for carrying coal should be covered and have a valid PUC.

Condition (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 analyzed through a laboratory recognized under EP rules, 1986.

Status of Compliance:

As informed, Pollution monitoring and analysis is being carried out by CMPDIL, Ranchi.



Condition (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. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractors due to exposure of dust and to take corrective measures, if needed.

Status of Compliance:

It has been informed that Personnel working in dusty areas like drill operators have been provided with protective respiratory devices (dust masks) and provided with adequate training and information on safety and health aspects. Year wise PME is reported as

<i>Year</i>	<i>Target</i>	<i>Achievement</i>
2012	148	152
2013	110	110
2014	123	144
2015	123	99

A certificate from the Area Medical officer has been furnished indicating that there is no detection of any occupational disease at the time of PME of Khasmahal OCP.

Condition (x). 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.

Status of Compliance:

It was informed that an Environment Management cell has been established in Khasmahal Project, including Project Officer, Manager, and Nodal Officer (Env).



Condition (xi). 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 Regional Office at Bhubaneswar.

Status of Compliance:


Project authority has submitted an expenditure of amount of Rs 24.198 lakhs as recurring cost for the year 2015-16 for Khasmahal OCP.

Condition (xii). The Project authority shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locally concerned within seven days of the clearance letter informing that the project has been accorded environment 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 at <http://envfor.nic.in>.

Status of Compliance:

Advertisements regarding the accord of environmental clearance was given in the local newspapers namely Hindustan dated 09/10/2010 and Prabhat Khabar, dated 08/10/2010. However, the clause of seven days has not been followed.

Condition (xiii). A copy of the Environmental clearance letter shall be marked to concerned 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 at company's website.



Status of Compliance:

It is requested to provide details of communication sent to concerned Panchayat/ Zila Parishad, Municipal Corporation or Urban Local Body and Local NGO.

Condition (xiv). A copy of clearance letter shall 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 centre and collector's office/Tehsildar's office for 30 days.

Status of Compliance:

It has been stated that copy of the environmental clearance has been submitted at JSPCB, Ranchi. However, no information was furnished regarding display of clearance letter at the District Industry Centre, Collector Office/ Tehsildars Office for 30 days. The same is being requested.

Condition (xv). The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities in their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameter shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.

Status of Compliance:



The copy of the clearance letter along with compliance status is displayed (company's website. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM10, PM_{2.5}, SO2 and NOx (ambient) and critical sectoral parameter should be displayed at the entrance of the project premises and mine office and in corporate office and on company's website. It requires immediate attention.

Condition (xvi). The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e mail) to the respective Regional Office of the MOEF, the respective Zonal offices of CPCB and the SPCB.

Status of Compliance:

*Copy of the six monthly compliance are being submitted to the Regional Office and Jharkhand Pollution Control Board, **however it should also be submitted to zonal office of CPCB.***

Condition (xvii). The Regional office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the respective Regional Office by furnishing the requisite data/information/monitoring reports.

Status of Compliance:

Cooperation has been assured.

Condition (xviii). The environmental statement for each financial year ending 31st March in Form-V is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment



(Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by e-mail.

Status of Compliance:

It was stated that the Environmental Statement for the Financial year 2014-2015 is submitted to Regional office of JSPCB.. Environmental statement for 2015-16 has been submitted to the Regional Office and uploaded in the website.

Other observation

- 1. The details of compensation paid to the land outsees to be submitted to the Regional Office.*
- 2. Copy of the recent consent to operate to be submitted to the Regional Office.*



(Dr. T.H. Mahato)
Scientist C

Government of India
Ministry of Environment, Forests and Climate Change (MoEF&CC)
Regional Office – Ranchi

MONITORING REPORT

PART I

DATA SHEET

File No: No-103-78/04/EPE

- 1 Project Type : *Coal Mining*
~~River valley / Mining / Industry /~~
~~Thermal / Nuclear / Other Specify~~
- 2 Name of the project : *Konar Opencast Project*
- 3 Clearance letter(s) / OM No. and dated : *No.J-11015/337/2005-IA.II(M) dated 02.02.2006*
- 4 Locations
Taluk(s) : *Govindpur & Bermo Villages, Tehsil Bermo,*
District *District Bokaro.*
State (s) : *Jharkhand*
Latitudes / Longitudes : *It lies between latitudes 23° 41' 04".N to 23° 42' 42"N and longitudes of 85° 16'06" E to 85° 19'36" E (As reported)*
- 5 Address of correspondence
a. Address of concerned project Chief Engineer (with Pin Code & telephone / telex / fax numbers : *General Manager
Konar OCP
B&K Area, CCL
P.O- Sunday Bazar Block-Bermo,
District- Bokaro, Jharkhand PIN-829127*
b. Address of Executive Project Engineer/ Manager (with Pin Code/fax numbers) : *General Manager, Konar OCP
B&K Area, CCL P.O- Sunday Bazar
Block-Bermo, District- Bokaro,
Jharkhand PIN-829127*
- 6 Salient features:
a. Salient features of the project : *Konar OCP (3.5 mTPA)*
b. of the environmental management plans : *Covered in the EIA/EMPs submitted to the Ministry of Environment, Forests and Climate Change (MoEF&CC) for approval at the time of grant of Environmental Clearance (EC)*
- 7 Breakup of the project area:
a Project area : *301.37 Ha.*
- 8 Break up of project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units and agricultural land and landless labourers / artisans : *410 families and 70 Tenants (as reported).*
a SC,ST/Adivasis : *Nil*

- 9 b Others : 439 families
- 9 Financial Details:
- 9 a Project cost as originally planned and subsequent revised estimates and the years of price reference : Sanctioned capital cost of project is 19315.00 Lakhs
- 9 b Allocations made for environmental management plans, with item wise and year wise breakup : 1907.78 Lakhs
- 9 c Benefit cost ratio / internal rate of return and the years of assessment : 1:10.60
- 9 d Whether (c) includes the cost of environmental management as shown in (b) above : no
- 9 e Total expenditure on the Project so far : 384.49 lakh
- 9 f Actual expenditure incurred on the environmental management plans so far : 32.59 lakh
- 10 Forest land requirement:
- 10 a The status of approval for a diversion of forest land for non-forestry use : Forestry clearance has been obtained for 288.26 Ha for Konar OCP vide no 8-55/2009-FC dt.-23.10.2012.
- 10 b The status of compensatory afforestation, if any : Rs 5.85 Crs Paid
- 10 c The status of clear felling : Details not made available
- 10 d Comments on the viability and sustainability of compensatory afforestation programme in the light of actual field experience so far : Details not made available
- 11 The status of clear felling in non-forest area (such as submergence area of reservoir, approach road), if any, with quantitative information : Details not made available
- 12 Status of construction:
- 12 a Date of commencement : Construction work started from 07.03.2007: making pillars for demarcation of Konar OCP etc, production started from 12.01.2014 (as reported).
- 12 b Date of completion (actual and / or planned) : Project is ongoing.
- 13 Reasons for the delay if the project is yet to start. : Production could not be done due to land problem(as reported)
- 14 Date of site visit:
- 14 a The dates on which the project was monitored by the Regional Office on previous occasions, if any : 04.09.2013
- 14 b Date of site visit for this monitoring report : 17.06.2016

Part-II

The following point needs special attention:

1. During visit it was observed that the retaining wall at the mine boundary was broken in a small portion which needs to be repaired immediately (Specific condition v).
2. Retaining wall around the toe of the O B dump is yet to be constructed. The condition is yet to be complied with (Specific condition vi).
3. *Project authority should make a plan to raise greenery in an area of 69.9 ha covering ML area, OB dumps, coal handling plant, roads etc and to be submitted to the Regional Office (Specific condition vii).*
4. Rain water harvesting structures should be erected in the area in consultation with the Regional Director, Central Ground Water Board (Specific condition x).
5. *Project Authority should provide seasonal variation / changes in the water level by constructing Piezometres as per the condition. Well water monitoring data analysed by CMPDI indicates that turbidity is always higher than the acceptable limit of drinking water standard. It requires urgent attention (Specific condition xi).*
6. It was informed that scheme of piezometres is under approval at CCL HQ level. The condition is yet to be complied with (Specific condition xiii).
7. *Project authority should approach Regional Director, CGWB for suitable rain water harvesting measure. It requires urgent attention (Specific condition xiv).*
8. *Project authority is yet to provide high efficiency water sprinkles system at CHP and Railway siding. It requires urgent attention (Specific condition xvi).*
9. *ETP is yet to be provided for the CHP. Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop is connected to a recharge pit without proper separation. It requires urgent attention (Specific condition xvii).*
10. Current Consent to operate is yet to be received from the state pollution control

board. Copy of the recent consent to operate needs to be submitted to the Regional Office (Specific condition xviii).

11. Project authority is yet to undertake survey on pre-project community health status within a radius of 1km. The condition is yet to be complied with (Specific condition xix).
12. During visit it was observed that Vehicles used for transporting the coal are not covered in spite of the fact that tarpaulin is available in tucks. Project authority should ensure that Vehicles plying for carrying coal should be covered and have a valid PUC (Specific condition xxi).
13. The details of compensation paid to the Land oustees and land losers are to be submitted to the Regional Office (Specific condition xxii).
14. Project authority should prepare action plan for conservation and protection of endangered fauna such as monkeys (*Presbytis entellus*), python, bazz, eagle, peacock and report to be submitted to the Regional Office (Specific condition xxiv).
15. A copy of the mine closure plan should be submitted to the ministry of Environment, Forest and Climate Change for approval (Specific condition xxv).

General condition:

1. Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest department and experts and report submitted to the Regional Office. It requires urgent attention of the project. (General condition iii).
2. Monitoring of heavy metals is yet to be carried out. Submitted data indicates that PM_{10} exceeds the limits of NAASQ for June 2015 in all the stations and in P O Office in Dec15 and March 16. $PM_{2.5}$ data reported for quarter ending Dec15 and March 16. $PM_{2.5}$ should be monitored regularly. Ambient Air Quality should be monitored as per NAAQS-2009. Data on heavy metal such as Hg, As, Ni, Cr,

etc should be monitored and report submitted regularly. The project authority should be very particular of doing regular monitoring of ambient air quality. It requires urgent attention (General condition iv).

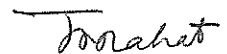
- 3. Project authority is yet to monitor Fugitive dust emissions. It is requested to provide Fugitive emission details to the Regional Office. However, Water spraying arrangement in railway siding is yet to be provided (General condition v).*
- 4. Noise level in the work environment should be monitored and reported to the Regional office (General condition vii).*
- 5. Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop connected to a recharge pit without proper separation. It requires urgent attention (General condition x).*
- 6. Details of communication sent to concerned Panchayat/ Zila Parishad, Municipal Corporation or Urban Local Body and Local NGO should be provided (General condition xv).*
- 7. No information was furnished regarding display of clearance letter at the District Industry Centre, Collector Office/ Tehsildars Office for 30 days. The same is being requested (General condition xvi).*
- 8. A copy of the news paper advertisement should be provided to the Regional Office (General condition xvii).*

Other observation:

- 1. In earlier monitoring dated 04.09.2013 by Regional Office Bhubaneswar, it was indicated that "the project has been accorded Environmental Clearance on 02.02.2006 and as per the applicability of EIA Notification 1994 the EC is valid for 5 years which expired on 1st February 2012. It is therefore, required that the project should get the Environmental Clearance Revalidated before initiating any mining activity. Mining should be initiated by the project only after the revalidation*

of environmental clearance from MOEF falling which it will be a violation of EIA notification". However project authority has submitted vide letter no DGM/HOD/Env&Forest/2015/1751 dated 06.10.2015 that several activities were started from the year 2006-07 which includes arrangement of power supply, construction and maintenance of approach road etc (copy enclosed as annexure-1).

2. Details of the expenditure (item wise and year wise) on CSR for konar OCP are to be submitted to the Regional office.
3. *The Criteria pollutant levels namely SPM, RSPM, NOx, SO2 (ambient as well as stack emissions) or critical sectoral parameters indicated for the project should be displayed at a convenient location near the main gate of the company in the public domain.*
4. *Six monthly compliance reports are being submitted regularly from Oct 2013 to March 2014 onwards and Six monthly compliance report for the period Oct 15 to March 16 has been displayed in the website. However, as per the EIA Notification 2006, six monthly progress report on the status of compliance to the conditions of Environmental Clearance is to be submitted to Regional Office on the 1st of June, and 1st of December every year.*



(Dr. T.H. Mahato)
Scientist C

PART - III

Descriptive Report on status of compliance to conditions of environmental clearance and environment management.

-
1. Name of the project : KONAR OPENCASE PROJECT
2. No & date of environmental : J-11015/337/2005-IA.II(M) dated
clearance 02.02.2006
3. Address for correspondence :
- (a) Corporate Office : Darbhanga House, CCL, Ranchi
- (b) Project Office : Konar Opencast Project, PO-
Sunday Bazar, Dist- Bokaro –
829127, Jharkhand
4. Date of site visits: :
- (a) Dates of earlier monitoring : 04.09.2013
- (b) Date of Monitoring : 17.06.2016

PRESENT STATUS OF THE PROJECT:

The project was visited on 17.06.2016 along with Mr. Dilip Kumar, Manager, Khasmahal OCP, Mr. S P Sarangi, SO(P&P), Piparwar Area, Mr. S Singh, HOD(Env), CCL HQ, and other senior officers of the project. The latest emission and discharge consent submitted was obtained on 24.03.2005 vide letter no N-227 which was up to 12 month from date of issue. Project authority has applied for consent to operate from Jharkhand Pollution control board dated 15.08.2016. **Consent to operate is yet to be received from the state pollution control board.** Based on the site visit, documents provided and discussion held with project officials, status of compliance to various environmental clearance conditions, is as follows

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A. Specific Condition:

Condition (i) The environment clearance is subject to approval of the state land use Department, Govt. of. Jharkhand for diversion of agricultural land for non-agricultural use.

Status of compliance:

It was stated that the condition will be complied as and when required.

Condition (ii) The environment clearance is subject to grant of forestry clearance for diversion of 211.43 ha. Forest land.

Status of compliance:

Forest clearance has been obtained for an area of 288.26 ha vide letter no 8-55/2009-FC dated 23rd October 2013.

Condition (iii) Top soil should be stacked with proper slope at earmarked site(s) only with adequate measures and should be used for reclamation and rehabilitation of mined out areas.

Status of compliance:

No top soil is generated at present. It has been observed that the present bench of OB contains highly degraded (morrum) material.

Condition (iv) OB dumps should be stacked at embarked dumpsite(s) only and should not be kept active for long period. Proper terracing of OB dumps should be carried out so that the overall slope shall not exceed 28°. Backfilling should start from 10th year onwards. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the ministry of Environment & forest on six monthly basis.

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Status of compliance:

At present OB is being dumped as external dump. As per the information provided 4754402 cum OB has been removed till now.

Condition (v) Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drain should be regularly de-silted and maintained properly.

Garland drain (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material.

Status of compliance:

During visit it was observed that the retaining wall at the mine boundary was broken in a small portion which needs to be repaired immediately. It was informed that all mine water is being collected to the mine sump acting as siltation pond. The water from there is being used for sprinkling on roads, mining areas and other purposes.

Condition (vi) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run off and siltation should be based on the rainfall data.

Status of compliance:

Retaining wall around the toe of the O B dump is yet to be constructed. The condition is yet to be complied with.

Condition (vii) Green belt should be raised in area of 69.9 ha. By planting the



native species around the ML area, OB dumps, coal handling plant, roads etc. in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants/ha.

Status of compliance:

*It was informed that Forest land has been handed over vide letter no. 1702 dated – 17/08/2013. **Project authority should make a plan to raise greenery in an area of 69.9 ha covering ML area, OB dumps, coal handling plant, roads etc and to be submitted to the Regional Office.***

Condition (viii) The project authorities should meet the water requirement of nearby village(s) in case the village wells go dry due to de-watering of mine.

Status of compliance:

It has been informed that mine water will be discharged to the villagers if needed.

Condition (ix) Suitable embankment of proper dimensions should be constructed to protect the area from flood water of Konar river during rainy season.

Status of compliance:

It was informed that there is no danger of flood from Konar River at present. If needed, embankment will be constructed in future.

Condition (x) The project authority should implement suitable water conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

Status of compliance:

*Rain water recharging pit constructed near PO office. However, **Rain water harvesting structures should be erected in the area in consultation with the Regional Director, Central Ground Water Board.***

Tonahat

Condition (xi) Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometres during mining operation. The monitoring should be carried out four times in a year-pre- monsoon (Apr-May), monsoon (August), post monsoon(November) and winter(January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director , Central Ground Water Board.

Status of compliance:

*Project authority has been submitted dug well water level monitoring data which indicate a variable water level. **Project Authority should provide seasonal variation / changes in the water level by constructing Piezometres as per the condition. Well water monitoring data analysed by CMPDI indicates that turbidity is always higher than the acceptable limit of drinking water standard. It requires urgent attention.***

Condition (xii) Permission from the competent authority should be obtained for drawl of water from the river.

Status of compliance:

It was informed that no water is being drawn from any river at present.

Condition (xiii) The project proponent should undertake ground water modeling studies in the core and buffer zone areas to assess the impact of mining on ground water regime. Such modeling studies to be completed within a period of two years and should incorporate the available data from the primary and secondary sources. The ground water modeling report should be submitted to Central Ground Water Authority. Ministry and its Regional Office within six month of completion of study.

Status of compliance:

It was informed that scheme of piezometres is under approval at CCL HQ level.

The condition is yet to be complied with.

Condition (xiv) Suitable rain water harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, CGWB

Status of compliance:

*Rainwater recharging pit has been constructed near P.O. office, KMP. **Project authority should approach Regional Director, CGWB for suitable rain water harvesting measure. It requires urgent attention.***

Condition (xv) Appropriate mitigative measures should be taken to prevent pollution of Konar river in consultation with the State Pollution Control Board

Status of compliance:

It was informed that mitigative measures will be taken as per consultation of S.P.C.B to prevent pollution as and when required.

Condition (xvi) Coal handling plant should be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.

Status of compliance:

*Normal water sprinkler are in use in CHP. **However, Project authority is yet to provide high efficiency water sprinkles system at CHP and Railway siding. It requires urgent attention.***

Condition (xvii) Sewage treatment plant should be installed for the colony. ETP should also be provided for wastewater from workshop and CHP.

Status of compliance:

It was informed that there is no colony of the project at present. ETP is yet to be provided for the CHP. Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop is connected to a recharge pit without proper separation. It requires urgent attention.

Condition (xviii) Consent to operate should be obtained from SPCB before starting production from the mine.

Status of compliance:

The latest emission and discharge consent submitted was obtained on 24.03.2005 vide letter no N-227 which was up to 12 month from date of issue. Project authority has applied for consent to operate from Jharkhand Pollution control board dated 15.08.2016. Current Consent to operate is yet to be received from the state pollution control board. Copy of the recent consent to operate needs to be submitted to the Regional Office.

Condition (xix) The project authority should undertake sample survey to generate data on pre-project community health status within a radius of 1 km. from proposed mine.

Status of compliance:

Project authority is yet to undertake survey on pre-project community health status within a radius of 1km. The condition is yet to be complied with.

Condition (xx) Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MoEF and its Regional Office.



Status of compliance:

Project authority has submitted land use pattern for the year 2015.

Condition (xxi) Vehicular emissions should be kept under control and regularly monitored. Over loading of trucks be avoided to stop spillage. The loaded trucks be covered with tarpaulin sheets to prevent spillage of coal.

Status of compliance:

During visit it was observed that Vehicles used for transporting the coal are not covered in spite of the fact that tarpaulin is available in tucks. Project authority should ensure that Vehicles plying for carrying coal should be covered and have a valid PUC.

Condition (xxii) Land oustees and land losers should be compensated as per the State Government norms and CIL policy

Status of compliance:

It was informed that the compensation will be as per company rule, which is at par with the National R&R policy. **The details of compensation paid to the Land oustees and land losers are to be submitted to the Regional Office.**

Condition (xxiii) Blasting operation should be carried out only during the day time. Controlled blasting should be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.

Status of compliance:

It was informed that control blasting is being done to control ground vibration and optimal charge to control any fly rocks.

Tonahat

Condition (xxiv) The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as monkeys (*Presbytis entellus*), python, bazz, eagle, peacock reported in the study area in consultation with the concerned forest officials. Action plan for conservation of endangered fauna should be prepared and submitted to the ministry and Its Regional Office within 3 months.

Status of compliance:

Project authority should prepare action plan for conservation and protection of endangered fauna such as monkeys (*Presbytis entellus*), python, bazz, eagle, peacock and report to be submitted to the Regional Office.

Condition (xxv) A final mine closure plan along with details of Corpus Fund should be submitted to the ministry of Environment & Forests 5 years in advance of final mine closure for approval.

Status of compliance:

It was reported that mine closure plan has been prepared and approved at a cost of Rs 4238.78 lakh. A copy of the mine closure plan should be submitted to the ministry of Environment, Forest and Climate Change for approval.

General Condition

Condition (i). No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.

Status of Compliance:

There has been no change in mining technology.

Condition (ii). No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.

Status of Compliance:

The project has reported the following coal production for the last three years.

Year	Coal in MT
2014-15	0.65
2015-16	1.22

Condition (iii). Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest department and experts.

Status of Compliance:

Conservation measures for protection of flora and fauna in the core and buffer zone should be drawn up in consultation with the local forest department and experts and report submitted to the Regional Office. It requires urgent attention of the project.

Condition (iv). Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, NO_x and CO monitoring location of the stations should be decided based on the meteorological data, topographical, features and environmentally and ecologically sensitive targets in consultation with the state pollution control board.

Data on ambient air quality (RPM, SPM, SO₂, NO_x & CO) should be regularly submitted to the Ministry including its Regional office at Bhubaneswar and to the State Pollution Control Board/ Central Pollution Control Board once in six months.

Status of Compliance:

Four ambient Air quality monitoring stations has been established at Rest House, PO office, Barwabera Village and LodharBera village. However, Monitoring of heavy metals is yet to be carried out.

Project Authority has been submitted data on ambient air for quarter ending June 15, Sep 15, Dec15 and March 16 for PM₁₀, PM 2.5, SO₂ and NO_x. Submitted data indicates that PM₁₀ exceeds the limits of NAASQ for June 2015 in all the stations and in P O Office in Dec15 and March 16. PM_{2.5} data reported for quarter ending Dec15 and March 16. PM_{2.5} should be monitored regularly. Ambient Air Quality should be monitored as per NAAQS-2009. Data on heavy metal such as Hg, As, Ni, Cr, etc should be monitored and report submitted regularly. The project authority should be very particular of doing regular monitoring of ambient air quality. It requires urgent attention.

Condition (v). Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, loading and unloading points should be provided and properly maintained.

Status of Compliance:

Project authority is yet to monitor Fugitive dust emissions. It is requested to provide Fugitive emission details to the Regional Office. Water spraying arrangement in haul road has been provided. However, Water spraying arrangement in railway siding is yet to be provided.

Condition (vi). Drills should either be operated with dust extractors or should be equipped with water injection system.

Status of Compliance:

It was informed that Drills are provided with dust extractor arrangement.

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Condition (vii). Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operation of HEMM etc should be provided with ear plugs/muffs.

Status of Compliance:

*Noise levels are being monitored at three location at Rest House, PO office, and Lodhar Bera village . Project Authority has been submitted data on ambient Noise for quarter ending Dec15 and March 16. Noise levels are below 85 dBA. **However, noise level in the work environment should be monitored and reported to the Regional office.***

Condition (viii). Measures for safety should be provided for storage, handling and use of explosives during the project period .

Status of Compliance:

It was stated that Safety measures are being taken into account for storage, handling and use of explosive.

Condition (ix). Acid mine water if any has to be treated and disposed of after conforming to the standard prescribed by the competent authority.

Status of Compliance:

It was informed that there is no evidence of acid mine water.

Condition (x). Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated- 19th may 1993 and 31st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

Status of Compliance:

*The waste water is collected in mine sump. The testing of mine sump water is done quarterly by CMPDIL. The analysis report of mine sump water for 26 parameter analysed by CMPDI is within limit. **Oil and grease trap constructed at workshop has some design fault which should be corrected on urgent basis. The discharge of the workshop connected to a recharge pit without proper separation. It requires urgent attention.***

Condition (xi). Person working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.

Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures if needed

Status of Compliance:

It has been submitted that 45 nos of respiratory mask and 12 nos of earmuff has been issued to the employee of Konar OCP during 2015-16. VTC training undertaken by 34 nos of employee and PME is done for 24, nos of employee.

Condition (xii). A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive who will report directly to the Head of the organization.

Status of Compliance:

It was informed that an Environment Management cell has been established in Konar Project, including Project Officer Konar OCP, Area Env. Officer B&K Area and Project Env Officer.

Condition (xiii). The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its Regional office located at Bhubaneswar.

Status of Compliance:

Project authority has submitted an expenditure of Rs 18.535 lakhs as recurring cost for the year 2015-16 and Rs 14.055 lakhs for the year 2014-15 on statutory fee, water sprinkling/dust control and environmental monitoring.

Condition (xiv). The regional office of this ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.

Status of Compliance:

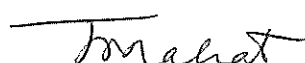
Cooperation has been assured.

Condition (xv). A copy of the clearance letter will be marked to concerned Panchayat/Local NGO, if any , from whom any suggestion/ representation has been received while processing the proposal.

Status of Compliance:

Details of communication sent to concerned Panchayat/ Zila Parishad, Municipal Corporation or Urban Local Body and Local NGO should be provided.

Condition (xvi). State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's Office / Tehsildar's office for 30 days



Status of Compliance:

It was informed that a copy of environment clearance letter has been submitted to JSPCB, Ranchi. ***However, no information was furnished regarding display of clearance letter at the District Industry Centre, Collector Office/ Tehsildars Office for 30 days. The same is being requested.***

Condition (xvii). The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the issue of 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 to the website of the ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional office of this ministry located at Bhubaneswar.

Status of Compliance:

It was informed that advertisements regarding the accord of environmental clearance were given in the local newspapers. However no documents were provided. A copy of the news paper advertisement should be provided to the Regional Office.

Other observation:

1. In earlier monitoring dated 04.09.2013 by Regional Office Bhubaneswar, it was indicated that "the project has been accorded Environmental Clearance on 02.02.2006 and as per the applicability of EIA Notification 1994 the EC is valid for 5 years which expired on 1st February 2012. It is therefore, required that the project should get the Environmental Clearance Revalidated before initiating any mining activity. Mining should be initiated by the project only

Tonahat

after the revalidation of environmental clearance from MOEF falling which it will be a violation of EIA notification". However project authority has submitted vide letter no DGM/HOD/Env&Forest/2015/1751 dated 06.10.2015 that several activities were started from the year 2006-07 which includes arrangement of power supply, construction and maintenance of approach road etc (copy enclosed as annexure-1).

2. Details of the expenditure (item wise and year wise) on CSR for konar OCP are to be submitted to the Regional office.
3. *The Criteria pollutant levels namely SPM, RSPM, NOx, SO2 (ambient as well as stack emissions) or critical sectoral parameters indicated for the project should be displayed at a convenient location near the main gate of the company in the public domain.*
4. *Six monthly compliance reports are being submitted regularly from Oct 2013 to March 2014 onwards and Six monthly compliance report for the period Oct 15 to March 16 has been displayed in the website. However, as per the EIA Notification 2006, six monthly progress report on the status of compliance to the conditions of Environmental Clearance is to be submitted to Regional Office on the 1st of June, and 1st of December every year.*



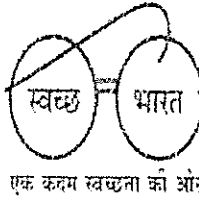
(Dr. T.H. Mahato)

Scientist C



CCL

(AMTiratna Cat-1 Company)



एक कदम स्वच्छता की ओर

सेन्ट्रल कोलफील्ड्स लिमिटेड

(भारत सरकार का एक उपक्रम)

(दरभंगा हाउस, राँची-834029)

CENTRAL COALFIELDS LIMITED

(Govt. of India Undertaking)

Darbhanga House, Ranchi- 834 029

फोन/Phone: (0651) 2360184 फैक्स/Fax: (0651) 2360184,

वेबसाइट/Website: http://www.ccl.gov.in

पत्रांक : डी.जी.एम./एच.ओ.डी./(व.एवं पर्या.)/2015 1451

दिनांक: 06.10.2015

To

✓ Additional PCCF

Ministry of Environment, Forest and Climate Change,

Regional Office (ECZ),

Bungalow No. A-2, Shyamali Colony,

Ranchi - 834002

Subject: Konar Opencast Project (3.5 MTPA) in an ML Area of 301.37 Ha. of M/S Central Coalfields Limited in District Bokaro of Jharhand – Environmental Clearance –reg.

Reference : J-11015/337/2005-IA-II(M)

Dear Sir,

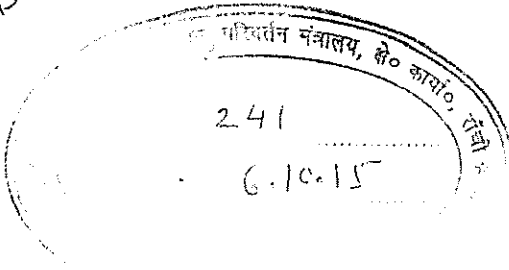
Please refer to the above mentioned letter in respect of Environment Clearance of Konar OCP of CCL. The Project was monitored by the then Director, MOEF, Regional Office, Bhuwaneshwar on 02.09.2013. In respect to his monitoring report the following points are brought to your kind notice :

1. The Environmental Clearance of Konar OCP was granted on 02.02.2006. As per EIA notification 1994 the clearance granted shall be valid for a period of five years for commencement of the construction or operation of the project.
2. Several activities were started from the year 2006-07 which includes arrangement of Power supply, construction & maintenance of approach road etc.

The above facts are submitted for your kind perusal .

Yours faithfully,

DGM/HOD (E&F)



Handwritten notes: H. Narayan, Scientist, 9.10.2015

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CENTRAL COALFIELDS LIMITED
KONAR O.C.P.

**TOTAL EXPENDITURE IN RESPECT OF KONAR O.C.P. WITH
EFFECT FROM 2006-07 TO 2010-11.**

Sl. No.	Description of work	Agreement No./Date	Agreement Value	Payment made
1.	Making pillars for demarcation of Konar OCP	CGM(B&KPSO(M)/01/06-07, dt.08.03.2007	₹ 300774.00	₹ 300433.00
2.	Extension of 440V O.H. line different location at Konar OCP.	KMP(I & M) W.O. 20/06-07, dated 07.03.2007	₹ 17154.70	₹ 17154.00
3.	Repair of rain cuts, pot holes, approach road of Konar OCP.	KMP C W O 07-08/38, dated 22.02.2008	₹ 18504.74	₹ 18499.00
4.	Re-organisation-laying jointing and transportation of 6" dia pipe line 645m from KMP O/C sump to Konar OCP.	F&M 29-08-09, dated 08.03.2009	₹ 310901.00	₹ 310101.00
5.	Repair of Barwabeara road under Konar OCP.	KMP C W O 09-10/11, dated 30.05.2010	₹ 53357.00	₹ 53357.00
6.	Renovation of 440V O.H. line in r/o Konar OCP.	KMP(I & M) 66-10-11, dated 13.08.2011	₹ 192877.00	₹ 192386.00
			Total	₹ 8,91,930.00

Project Officer.
KMP/Konar OCP.

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