

	<p>नार्दर्न कोल फील्ड्स लिमिटेड (भारत सरकार का एक प्रतिष्ठान) महाप्रबन्धक कार्यालय ककरी परियोजना, पोस्ट : ककरी जिला : सोनभद्र ,उत्तर प्रदेश पिन-231 220 फोन 05446278094ए फैक्स : 05446256015</p>		<p>NORTHERN COALFIELDS LIMITED (A Government of India Enterprise) OFFICE OF THE GENERAL MANAGER KAKRI PROJECT P.O. : KAKRI DIST. SONEBHADRA (U.P.) - 231 220 Phone : 05446 - 278094 Fax.No.07805-256015</p>
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NC GM/KKR/EMP/2014/ 55

Dated:-04-01-14
Regd.Post

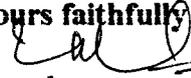
To
The Director (S)
Ministry of Environment & Forest
Regional Office (Central Region)
Vth floor, Kendriya Bhawan, Sector-H,
Aliganj , Lucknow -226024 (U.P.)

पर्यावरण विभाग, नई दिल्ली
ककरी परियोजना
प्राप्ति दिनांक: 30/01/14

Sub: Status of compliance of Environmental clearance in Mining Projects approved from Environmental angle from 01-04-2013 to 30-09-2013.

Dear Sir,

Enclosed please find herewith compliance report on implementation of environmental conditions stipulated by the Govt. of India in environmental clearance letter no. J-11015/176/2003-II(M) dated.11-05-2005 and J-11015/218/2007 /IA-11(M)dated.20-08-2007 and J-11015/ 3147/IA/ dated 29-08-1989, in respect of Kakri Project

Yours faithfully

General manager
Kakri Project

Encl: As above

Copy to:

1. Dr. Sunita Auluck .Director IA. Monitoring cell.
Paryvaran Bhawan. CGO Complex. New Delhi -110003
2. Dr. Satya Dy.Director
Ministry of Environment & Forest
Regional Office (Central Region)
Vth floor, Kendriya Bhawan, Sector-H,
Aliganj , Lucknow -226024 (U.P.)
3. Zonal Officer, Central Pollution Control Board
Zonal Office, North PICUP Bhawan, Vibhuthikhand, Gomti
Nagar, Lucknow, 226010(U.P.)
4. Regional Officer, UP Pollution Control Board,
H.NO:- 162, Uttar Mohal, Near Chandni Hotel
Robertsganj. Sonbhadra:-231216
5. G.M. (Env.), NCI.- Singrauli


Sunita Auluck

Name of the Project:-N.C.L.Kakari Project,Distt.Sonebhdra (U.P)

Clearance Letter NO:- J-11015/176/2003-IA.II (M) t.11.05.2005

Project Code:- UP -8-177-05

Period of Compliance Report:- from 01-04-2013 to 30-09-2013

(A.) Specific conditions

	Description	Remarks
1	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.	The thickness of Top Soil is very less. How ever it is already being used for reclamation and rehabilitation of mined out areas.
2	OB dumps should be stacked at earmarked dump site(s) only and should not be kept active for long period. Proper terracing of OB dump should be carried out so that the overall slope will come down to 28 degree .The excavated area should be back filled simultaneously with the mining operation. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining .Compliances status should be submitted to the Ministry of Environment & Forests on Yearly basis.	OB dumps is being stacked at earmarked dump site(s) only and is not being kept active for long period. Proper terracing of OB dump is being done to keep the overall slope up to 28 degree .The excavated area is being back filled simultaneously with the mining operation. Tree plantation is carried out by UP State Forest Depatt. and after 3 years when the vegetation become self-sustaining it is handed over by the forest department to Project .During year 2012-15,000 Tree were planted on OB Dump.
3	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 utilised for watering the mine area, roads, green belt development etc. the drains should be regularly desilted and maintained properly. Garland drains of appropriate size should be constructed, to collect surface run-off from the OB and waste dump site(s) and taken to settling pond before discharge.	Catch drains and siltation ponds of appropriate size is being constructed to arrest silt and sediment flows from soil, OB and mineral dumps. Collected water is being used for watering of mine area road etc. The drains are being regularly desilted and maintained properly . Garland drains of appropriate size had already been constructed to collect surface run-off from the OB and waste dump site(s) and taken to settling pond before discharge.
4	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation are kept based on the rain fall data.
5	Green belt should be raised in an area of 176.0ha by planting the native species around the ML. area OB dump sites colony etc .in consultation with the local DFO/ Agriculture Department. The density of the trees should be around 2500 plants per ha.	Green belt are being raised in an area of 176.0 ha. by planting the native species around the ML area out of 176 Ha. Land green belt had provided by planting 4,66,220 No of trees in 143 Ha. Of land on OB dump area and plain area from year 2004 to2011 by DFO, UP State Forest Deptt. on the cost of project. The density of trees planted is around 2500-3500 plants per ha in plain area and OB respectively. This is a. Continuous process along with mining activity. Plants so far plantedfrom1984to2011 is 20,32 Lakh.

6	The Project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	For Augmentation of Ground water we have constructed big sump and ponds for recharging of Ground water .in this connection it may be noted that the resent remot sensing done between 2000-2005. It revils that the water bodies has increased from 0.57 Sq K.m. in 2000 to 0.97 Sq K.M. in 2005. It is an increase of 0.40 SqK.M of the water bodies
7	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year- pre-monsoon (April-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.	Regular monitoring of ground water level and quality is carried out by establishing a network of existing wells. Action has been taken for construction of piezometers. Water level monitoring is carried out four times in a year- pre-monsoon (April-May) , monsoon (August), post-monsoon (November) and winter (January) by CMPDII., Jaynat. Above data are being sent regularly to MOEF, Central Ground Water Authority and Regional Director Central Ground Water Board.
8	The Project authorities should meet the water requirement of nearby village(s) in case the village wells go dry due to de-watering of the mine.	The Project authorities are providing water according to requirment of nearby village(s).
9	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.	We have provided sufficient no. of nozzles for water sprinkling at CHP, Loading and un-loading and transfer point for dust control. These sprinklers are properly maintained and operated. More over the entire C.H.P. area is covered with C.G.I. sheet to control the spread up dust.
10	Consent to operate should be obtained from SPCB for the enhanced production	We have obtained Air & Water consent up to 31.12.2013 from UPSPCB for received from UPSPCB Lucknow.
11	Vehicular emissions should be kept under control and regularly monitored.	Vehicular emissions are under control and monitoring in being done regularly.
12	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.	Periodical monitoring land use pattern by remote sensing technique has been carried out by CMPDIL As per assessment of vegetation cover in Singrauli Coalfields for the year 2000 and 2005. Results show that vegetation cover has increased by (+) 0.85 % in aggregate . Similarly, water bodies has also increased by (+)0.19% in aggregate. Repots are being submitted to MOEF and its regional offices. Action has been taken for Monitoring recent Land use pattern using remote sensing technique and it will be submit to MOEF shortly.

6	Adequate measures should be taken for control of noise levels within prescribed standards. workers engaged in blasting and drilling operations, operations of HEMM etc. should be provided with ear plugs/muffs.	Adequate measures had already been taken for control of noise levels. Noise level are within prescribed standards. workers engaged in blasting and drilling operation, operators of IEMM etc had already provided and wear ear plugs & muffs.
7	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 19.05.1993 and 21.12.1993 or as amended from time to time . Oil and grease trap should be installed before discharge of effluents from workshop.	We have already installed industrial effluent treatment plant (ETP) for treatment of Industrial water and after proper treatment clean water is used for industrial purpose and remaining water discharged to GVP Sagar. Oil and grease trap have already installed before discharge of effluents from workshop. A big Pound Construct for re-use of ETP water as per instruction of CPCB.
8	Acid mine water, if any has to be treated and disposed of after conforming to the standard prescribed the competent authority.	Mine water is sent to ETP for treatment and after proper treatment it is used for industrial purpose and remaining water sent to GVP Sagar. The treated water conforming to the standard prescribed by the competent authority.
9	Personal working in Industry 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 should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures, if needed. Environmental laboratories should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the State Pollution Control Board.	Personnel working in Industry areas have already been provided and wear protective respiratory devices and proper training and information on safety and health aspects had given to all employees. Medical examination of all employees is being done at the interval of every five year, none of the employees is suffering from occupational disease.
10	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the State Pollution Control Board.	Environmental laboratory with adequate number and type of pollution monitoring and analysis equipments had already established by CMPDIL, Jayant in NCL premises.

11	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.	Environmental Monitoring Cell is Headed by Mr.A.N.Pandey General Manager, Kakri Project and name of the other members are given below: 1. Mr. A.Patakh. G.M.(M). Identification of OBdumps for reclamation and re-vegetation.. 2. Mr.A.K.Singh.S0(C). 3. Mr.J.C.Bhatt S0(E&M) 4. Mr.SK Acharya, DyCE(Excav)/W/S 5. Mr.S.K.Singh, Area Safety Officer 6. Mr. U.S.Singh Sr.Manager. Env. Enggr. Reclamation and re-vegetation of identified OB. and Plain areas with the help of UP forest Department for Plantation. and other regular Environmental related jobs. 7. Baiju Das Revenue Inspector, Looking after the job of R&R Cell and other jobs fo Revenue Dept. 8. Mr.Jaishankar Sr. Survey Officer Job related to Survey and other regular works 9. Mr.Shailendra Kr. Dubey UDC Record Keeping.
12	The fund earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes, Year-wise expenditure should be reported to the Regional Officer, Lucknow of the MOEF and to the Ministry.	The fund earmarked for environmental protection measures is being kept in separate account and is not be diverted for other purposes.
13	The Regional Office of this Ministry located at Lucknow shall monitor compliance of the stipulated conditions. The Project authorities should extend full co-operation to the officers) of the Regional Office by furnishing requisite data/information/monitoring reports.	Project authority are providing full co-operation to the officer of Regional offices at the time of their monitoring.
14	A copy of the clearance letter will be marked to the concerned Panchayat /local NGO, if any, from whom any suggestions/representation has been received while processing the proposal.	A copy of the clearance letter had already sent to concerned Panchayat , Local NGO etc.
15	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed.

16	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's/ Tehsildar's Office for 30 days.	Not applicable.
17	The Project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forests at http:// envfor.nic.in .	It has already advertised in local news papers..
3	The ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Agreed.
5	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act,1991 along with their amendments and rules.	Agreed.

From above it may be seen that all the condition laid down in Environmental clearance granted in 2005 are being complied and we ensure that the same will be complied in right earliest in future too.


 General Manager
 KAKRI PROJECT

Name of the Project:-N.C.L.Kakari Project , Distt.Sonebhdra (U.P)

Clearance Letter NO:- J-11015 /218/2007-1A.II(M) dt.20.08.2007

Project Code:- UP -2-47-90

Period of Compliance Report:- from 01-04-2013 to 30-09-2013,

S N	Description	Remarks
i	Mining operation during the balance life of mine shall be carried out as the approved mining Plan.	Mining operation is being carried out as per the approved mining Plan and the same will be also continued for the remaining period.
ii	The expansion in production shall be achieved with no. Change in the quantum of OB generation and no change in the pit and dump design. Monitoring and Management of existing reclaimed dump sites should continue until the vegetation become self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Lucknow on yearly basis.	The expansion in production shall be achieved without any Change in the quantum of OB generation and without any change in pit dumps design. Tree plantation in existing OB dumps sites are being done by Uttar Pradesh State Forest Department on the cost of project and after three year UP State Forest Department hand over these plantation to the Project when the vegetation becomes self sustaining. We are submitting compliance report to the Ministry of Environment & Forests and the Regional offices Located at Lucknow on regular basis.
iii	No additional external source of water shall be required for the expansion, the increase of water requirement from 2693 m ³ /d to 3083m ³ /d shall be met from mine seepage water.	The increase of water requirement from 2693 m ³ /d to 3083m ³ /day is being meet from mine seepage water. Without taking water from any additional external source.
iv	The CHP shall be fully enclosed and provided with bag filters which regularly operated and maintained.	The CHP is fully enclosed and dust extraction system are provided in crusher house which is regularly operated and maintained.
v	A progressive afforestation plan shall be implemented covering a total area of 502 Ha. which includes reclaimed external OB dump, backfilled area along ML boundary and green belt. Along roads (9.5 Ha.), colony (46Ha.) And along vacant land by planting native, species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per Ha.	Afforestation on external OB dumps and back field area is being done as per afforestation plan. Green belt along roads. Colony, Rehabilitation Site and Other Vacant Land has already completed by planting native species by UP State Forest Department on the cost of Project. During the year 2012-13, 15,000.Trees were planted on OB dumps within the mine lease area. The density of trees planted is around 2500-3500 plants per Ha.in plain and OB respectively. This is a continuous process along with mining activity plants so far planted from 1984 to2011, 20.32 Lakh.

vii	Of the excavated area of 245 Ha. An area of 196 Ha shall be backfilled and reclaimed with plantation and the balance 49 Ha of the declared void being converted into a water reservoir would be gently sloped and the higher benches of which shall be established by plantation / afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around.2500 plants per Ha.	Agreed, Out of 196 Ha. backfilled and reclaimed with plantation area. Reclaimed and planted backfilled area up to year 2012 = 143 Ha. No. Of tree planted in backfilled area up to year 2012 = 4,66,220 Survival % age = 80 %.
viii	A detailed Mine closure plan along with details of post mining land use with physical and financial targets shall be submitted to MOEF and to the Regional Office located at Lucknow within six months of issuance of this clearance letter.	Detailed Mine closure plan along with details of post mining land use with physical and financial targets had been submitted to MOEF and to the Regional Office located at Lucknow vide this office letter No.KKR/GM(M)/Env/40/12-13/223 Dt.26.11.12.
3	The above conditions are in additional to the conditions stipulate vide environmental clearance letter No. J-11015/176/2003-IA(M) dated.11.05.2005.	Encl.. Annex..
4	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Agreed.
5	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act.1986.	Agreed.
6	The above conditions will be enforced inter alias, under the provisions of the water (Prevention & Control of Pollution) Act.1974, the Air (Prevention & Control of Pollution) Act.1981, the Environment (Protection) Act.1986, and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	Agreed.

From above it may be seen that all the condition laid down in Environmental clearance granted in 2005 & 2007 are being complied and we ensure that the same will be complied in right earliest in future too.


General Manager
KAKRI PROJECT

Name of the Project :-N.C.L.Kakri Project ,Distt.Sonebhdra (U.P)

Clearance Letter NO:- J-11015/3187-IA dt . 29.08.1989)

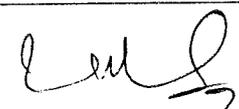
Project Code:- UP -2-47-90

Period of Compliance Report:- from 01-04-2013 to 30-09-2013

S.N	Conditions	Compliance
1	(i) At the end of the mining operation, the degraded land should be reclaimed as possible to the agricultural use. (ii) Where it is not possible to reclaim for agricultural use, the reclaimed land shall be used for re-vegetation.	Due to creation of undulation like large OB dumps and voids it is not possible to reclaim the degraded land for agricultural use at the end of mining operation. Re-vegetation. on external OB dumps and back field area is being done as per afforestation plan. Green belt along roads. Colony, Rehabilitation Site and Other Vacant Land has already completed by planting native species by UP State Forest Department on the cost of Project. During the year 2012-13, 15,000.Trees were planted on OB dumps within the mine lease area. The density of trees planted is around 2500-3500 plants per Ha.in plain and OB respectively. This is a continuous process along with mining activity plants so far planted from 1984 to2011 20.32 Lakh.
2	The total area of external dumping would be reduced from 162 Ha. (proposed in the revised EMP) to 125 Ha. thereby reducing the quantity of OB in the external dumps from 45.5 MM ³ to 38.5 MM ³ .	Agreed
3	All the OB dumps should be reclamationd and revegetation.	Reclamationd and revegetation. on external OB dumps and back field area is being done as per afforestation plan. Green belt along roads. Colony, Rehabilitation Site and Other Vacant Land has already completed by planting native species by UP State Forest Department on on the cost of Project. During the year 2012-13, 15,000.Trees were planted on OB dumps within the mine lease area. The density of trees planted is around 2500-3500 plants per Ha.in plain and OB respectively. This is a continuous process along with mining activity plants so far planted from 1984 to2011 20.32 Lakh.
4	Suitable dust suppression measures should be taken wherever the air pollutants are found to higher than the permissible limits.	:Air pollutants are with in the limits and suitable dust measures, such as water sprinkling on all haul roads, suitable dust arresters on the drills, water sprinklers at all the transfer points at the CHP, are being taken.

5	Suitable treatment for sump water and industrial effluent should be provided before discharging in to the surface water system.	<p>A.(i) Sump water :- sump water is allowed to settle in to the sump and then pumped to ETP (Effluent treatment Plant) and after proper treatment of entire water part of water is used for industrial purpose and remaining water is discharged in to the surface water system.</p> <p>(ii) Workshop and CHP Effluent:- Effluent form CHP and Workshop is allowed to settle in oil and Grease trap after sepration of oil and Grease it is pumped to ETP (Effluent treatment plant) and after proper treatment of entire water part of water is used for industrial purpose and remaining water is discharged in to the surface water system.</p>
6	The reclamation of the mined out area would be carried out as per the plan incorporated in the EMP (subsequently revised in the supplementary EMP July 1988) for this project submitted by the department of coal/Northern Coalfields Limited.	The reclamation of the mined out area is being done as per reclamation plan.incorporated in the EMP (subsequently revised in the supplementary EMP July 1988) by planting native species by UP State Forest Department on the cost of Project. During the year 2012-13, 15,000.Trees were planted on OB dumps within the mine lease area. The density of trees planted is around 2500-3500 plants per Ha.in plain and OB respectively. This is a continuous process along with mining activity plants so far planted from 1984 to2011 20.32 Lakh.
7	All pollution control measures listed in the Environmental Management Plan would be strictly implemented as per schedule.	Pollution controll measures listed in the EMP are strictly complied .
8	A periodic progress report regarding implementation of the control measurcs shall be submitted to this department every six months.	Periodic progress rept regarding implementaion of the control measures is being submitted six monthly.

9	The effluent quality will confirm to the standards prescribed by the Central/State Pollution Control Board under Environment (Protection) Act,1986. Sufficient number of air and water quality monitoring stations will be set up.	06 nos. of Water and 5 nos. of Air quality monitoring station has been set up. Monitoring of the water effluent is done fortnightly . Monitoring of Air quality is done fortnightly. All the Parameters are within the prescribed limits.
10	Regular monitoring of various environmental quality parameters would be carried out by the project authority and the result of the monitoring would also be enclosed in the six monthly progress report to be submitted to this Ministry.	Air quality monitoring is being done twice in a month . Water quality monitoring is being done twice in a month. Noise level monitoring is being done twice in a month (day time and night time both) All the Parameters are within the prescribed limits.
11	The project will have an environmental Cell for monitoring quality of water , air, noise and other action plan for protection of environment.	Environmental Monitoring Cell is Headed by Mr.A.N.pandey General Manager, Kakri Project and name of the other members are given below: 1. Mr. A.Patakh. G.M.(M). Identification of OB dumps for reclamation and re-vegetation.. 2. Mr. A.K. Singh .SO(C) 3. Mr. I.C. Bhatt, SO(F&M) 4. Mr. S.K. Acharya, DyCE(Excav)/W/S 5. Mr. S.K. Singh, Area Safety Officer 6. Mr. U.S. Singh Sr. Manager Env. . Reclamation and re-vegetation of identified OB. and Plain areas with the help of UP forest Department for Plantation. and other regular Environmental related jobs. 7. Baiju Das Revenue Inspector, Looking after the job of R&R Cell and other jobs for Revenue Dept. 8. Mr. Jaishankar Sr. Survey Officer Job related to Survey and other regular works 9. Mr. Shailendra Kr. Dubey UDC Record Keeping.


 General Manager
 Kakri Project