

No. J-11015/79/2013-IA.II (M)
Government of India
Ministry of Environment, Forests & Climate Change
IA-II Division (Coal Mining)

Indira Paryavaran Bhawan,
Jorbagh Road.
New Delhi-110003

Dated: 19th March, 2015

To,

The Chief General Manager
NCL Nigahi Project
M/s Northern Coalfields Ltd.,
District Sidhi.
Madhya Pradesh
Email: cgmnhj@ncl.gov.in

Sub. : Expansion (Under 7(ii) of EIA Notification, 2006) of Nigahi Opencast Expansion Coal Mining Project of (15 MTPA to 18.75 MTPA in an ML area of 2650.40 ha (3036.40 Ha – 386 Ha = 2650.40 ha); Latitude 24⁰07'30" to 24⁰10'58" N and Longitude 82⁰36'24" to 82⁰39'28"E) of M/s Northern Coalfields Ltd., Dist. Singrauli, Madhya Pradesh - Environment Clearance - reg.

Sir:

This is with reference to letter no. NCL/SGR/Env./13/3995 dated 09.03.2013 along with the application for expansion of the production under section 7(ii) of the EIA Notification, 2006. Reference is also invited to the subsequent letter nos. dated 22.10.2013; 05.05.2014; 16.05.2014; 14.06.2014; 18.07.2014; 21.10.2014 and 26.02.2015 for environmental clearance on the above-mentioned subject.

2. The Ministry of Environment, Forests & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental Clearance for **expansion (Under 7(ii) of EIA Notification, 2006) of Nigahi Opencast Expansion Coal Mining Project of (15 MTPA to 18.75 MTPA in an ML area of 2650.40 ha (3036.40 Ha – 386 Ha = 2650.40 ha); Latitude 24⁰07'30" to 24⁰10'58" N and Longitude 82⁰36'24" to 82⁰39'28"E) of M/s Northern Coalfields Ltd., Dist. Singrauli, Madhya Pradesh.** The proposal was considered in the 7th EAC meeting held on 12th -13th December, 2013 and 17th EAC meeting held on 23rd – 25th July, 2014. The proponent has informed that:

- i. Environment Clearance for 15 MTPA OCP was granted vide letter No. J-11015/235/2006-IA.II (M) dated 08.05.2007. Now, project proponent has applied for 25% expansion under 7(ii) of EIA Notification 2006 in line with the MOEF O.M. No. J-11015/30/2004-IA.II (M) dated 19.12.2012.
- ii. Project is linked with Vindhyachal Super Thermal Power Station (NTPC). The existing Nigahi mine (15 MTY) is supplying coal to Vindhyachal STPS having a generation capacity of 3260 MW (6*210+4*500 MW units). The proposed expansion from 15 MTY to 18.75 MTY is to meet the demand of Vindhyachal STPS having proposed generation capacity upto 4260 MW (additional 2*500 MW units).
- iii. The latitude and longitude of the project are 24⁰07'30" to 24⁰10'58" N and 82⁰36'24" to 82⁰39'28"E respectively.
- iv. The land usage of the project:



Pre-mining:

1	Forest land	1260.00 Ha
2	Tenancy Land	1567.40 Ha
3	Govt. Land	209.00 Ha
	Total	3036.40 Ha

Post Mining:

Land Use	Total Area in Ha	Post Mining Land Use (Area in Ha)			
		Forest/ Green Area	Water Body	Public Use	Others
Top Soil	1.5	Included in OB			
Undisturbed Land	165	165			
Mine Void	60		60		
Reclaimed O.B dump	1823	1823			
Infra-Structure	74			10	64
Colony	265			265	
Green Belt		335			
Road, Rail	74			74	
ETP, CHP	40.4				40.4
Others	200				200
Total	3036.4	2323	60	349	304.4

Core area:

1	Backfilled Area	1405 ha
2	Void /Water body	60.0 ha
	Total Excavation Area:	1665.0 ha

- v. The total geological reserve is 561.71 MT. The mineable reserve 483.01 MT, extractable reserve is 483.01 MT. The per cent of extraction would be 86 %.
- vi. The coal grade is G7, G11 and G14. The stripping ratio is 3.68 m³/tone. The average Gradient is 2° to 3°. There will be four composite seams with thickness ranging from 4.0 m to 27.50 m.
- vii. The total estimated water requirement is 13620 m³/day. The level of ground water ranges from 1.12 m to 14.45 m bgl. A void of area 60 ha at a depth of average 40 m is proposed to be converted into a water body.
- viii. The Method of mining would be Opencast with Shovel-dumper combination with Dragline.
- ix. There are two external OB Dumps covering an area 418 ha with the height upto 150 m. The quantity will be 231 Mm³. There are four internal dumps covering an area 1405 ha. with the height upto 150 m (maximum from ground level). The quantity will be 1138 m³.
- x. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- xi. The **life of mine** is 24 Years.
- xii. **Transportation:** Coal transportation in pit shall be by dumper, Surface to Siding by CHP and siding to loading through SII.O and MGR.
- xiii. There is no **R & R** involved. There are no PAFs.
- xiv. **Cost:** Total capital cost of the project is Rs. 2078 Crores. CSR Cost Rs. 5.00 per tonne. No R&R Cost. Environmental Management Cost Rs. 4492.45 Lakhs.
- xv. **Water body:** No river/nalla flowing adjacent to the proposed mine.

- xvi. **Approvals:** Ground water clearance has not been obtained. Board's approval on 04.06.2005. Mining plan approval obtained for 15.0 MTPA approved on Oct.'2007. Mine Closure Plan obtained on 05.11.2011.
- xvii. **Wildlife issues:** There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xviii. **Forestry issues:** Total forest area involved for mining is 1260 ha. FC has been granted for 874 ha of forest land (vide letter no. 8-62/86-FC Dated 18.06.1987). Balance forest land 386 ha for which Stage-1 FC is not available.
- xix. Total afforestation plan shall be implemented covering an area of 2158.0 ha at the end of mining. Green Belt over an area of 335 ha. Density of tree plantation 2500 trees/ ha of plants.
- xx. There are no court **cases/violation** pending with the project proponent.

3. The proponent made the presentation and further informed that:

- i. The moratorium has been lifted vide MOEF&CC letter no.]-110i3/5/2010-IA,[(I) dated 10.06.2014 from Singrauli area.
- ii. The detailed action plan along with the budgetary provision for EC conditions of Nigahi OCP, for "partly/not complicated" as per compliance report of Regional Officer, have been sent to Regional Office, MoEF Bhopal requesting him for certification and forwarding the same to MoEF, New Delhi.
- iii. Study of zero discharge for Nigahi mine has been conducted and the report submitted to Regional Office, MoEF at Bhopal. Further, the zero discharge has also been implemented by construction of reservoirs and re-circulating system.
- iv. The satellite image of the land use pattern along with analytical report has been submitted to Regional Officer MoEF, Bhopal. The satellite data of 2008 to 2012 indicated that plantation carried out on backfilled area,OB dumps as well as under social forestry in Nigahi mine of NCI, has increased from 8.4 Sq. Km to 9.96 Sq. Km in span of four years. This increase of 1.56 Sq. Km (i.e. 18.57 %) area of plantation in four year's time is due to the efforts of the Project towards mine land reclamation.
- v. The revised calendar plan for production has been submitted.

4. MoEF Regional Office, Bhubaneswar has submitted the certificate of compliance to the EC vide their letter no. 3-33/2008/(ENV)/1561 dated 23.09.2013. The EAC deliberated on the compliance report of the MoEF's Regional Office and noted the action plan submitted by the proponent which include the following:

- i. Mining is being carried out only in the acquired land. At present mining is going on in 874 Ha of Forest land, which has the FC. In Mine Lease Area of 3036.40 ha, forest land is 1260 Ha, out of which 874 Ha has been acquired. The proposal for forest clearance for remaining 386 Ha is in process, which will be required for mining during 2017-18.
- ii. 7 km. long retaining wall has been constructed till March 2012 and further 80 mt. long retaining wall has already been constructed by 15th November, 2013 and construction of additional 80 mtr of retaining wall is under process. All the AAQ parameters are within permissible limits at all the 5 stations of Nigahi OCP.
- iii. More than 30 Lakh plants have been planted in nearly 800 Ha of land till date. The land which becomes available after dumps are finalized & backfilling is completed, is taken up for technical & biological reclamation.
- iv. The ground water quality of 33 dug wells surrounding the mine area is already being monitored. No piezometer has been installed for which action has been taken. Tendering has been done in this regard.
- v. A pond of 100 m X 150 m X 40 m. is under process in the township of Nigahi OCP which will help



in the recharging of ground water and surrounding village wells.

- vi. Mine water is stored in ponds for use during summer days for dust suppression. Two Tanks each of size 138 cum is under construction for treated water of ETP, which will help in meeting the EC condition of the zero-discharge.
- vii. 119 employees against the annual target of 616, have been medically examined for occupational disease and hearing impairment. No occupational disease patient was found till date at Nigahi Project. However a team from NIOH, Ahmadabad is expected in January 2014 for the study.
- viii. Water sprinkling arrangements on haul road with 13 water tanker (28 KL capacity) and water springing arrangements at receiving pit, transfer point, wagon loading etc. is done for fugitive dust control, which is also reflected in one year AAQ data. The no. of water tankers has been increased from 11 to 14 in the last four years.

5. The compliance report was deliberated earlier in the EAC which observed with concern that several EC conditions have not been complied with and asked the proponent to submit the action plan. The proponent has presented the compliance report to the earlier EC conditions visi-a-vis the Action Plan.

- i. The target for construction of retaining wall in the year 2014-15 is for a length of 160 m (approx.) with a budgetary provision of Rs. 70.0 lakh (approx.). The work will be completed in the current Financial Year.
- ii. Additional 2 nos. of mobile water sprinkler of 60/70 KL capacity for a cost of Rupees 2.4 Crores (approx.) each is under procurement at a total cost of Rs. 4.8 Crores.
- iii. Fixed water sprinkling system for a length of 1.6 Km of Haul Road length will be established in the current financial year (2014-15).
- iv. The mine is in operation as per the plan. Balance 60 ha of de-coaled area shall be converted into water body.
- v. The construction of piezometers shall be done in the current financial year and the budget provision of Rs.2.05 Cr. (for NCL) has been kept for this job.
- vi. Two Rain water harvesting structures near Delhi Public School and area covering Union Bank of India, Post Office and Nigahi Dispensary in residential area with a budgetary support of Rs.4.87 Lakhs.
- vii. One water recharging reservoir behind cluster 5, C- Type of Nigahi Township (Area - 1.68 Ha.) with a budgetary support of Rs.44.43lakhs.
- viii. The CMPDI report on zero discharge study at Nigahi Opencast Project has been sent to Regional Office, Western Region, MOEF.
- ix. Proposal from NIOH, Ahmedabad has been received for conducting health study in various projects of NCL including Nigahi Opencast Project at a cost of Rs. 27 Lakhs. This is in process of finalization.

6. Out of the total ML area is 3036.40 Ha, of which forest land is 1260 Ha. FC has been granted for diversion of 874 Ha of forest land vide letter No. 8-62/86-FC Dated 18.06.1987 by MoEF. The FC for 386 Ha forest land is not available. Therefore, EC for ML area of 1181.968 Ha (3036.40 Ha - 386 Ha - 2650.40 ha) - 2650.40 Ha. may be granted. In this regard, you are required to follow the guidelines issued by the FC Division of the Ministry of Environment and Forests vide no. 11-362/2012-FC dated 01-02-2013 "Guidelines for diversion of forest land for non-forest purposes under the Forest (Conservation) Act 1980. Submission of proposals to obtain forest land located within the mining lease and grant of environment clearance to mining projects" addressed to the Principal Secretary (Forests), Principal Secretary (Environment) of all the States/UT Govts. and copy to concerned Government Departments/Organisations which prescribes, inter-alia, the following:

“ (iii) As regards Environment Clearance (EC) cases of existing mining operations, where approval under the FC Act for the full forest area in the mining lease area is not available,

granting of EC may be considered and the following process will be adopted for processing such cases:

- i Grant of EC may be considered only for the non-forest area plus the forest area within the mining lease for which FC is available. No mining activities will be allowed in forest area for which the FC is not available; and
- ii The project proponent will seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines, failing which the mining lease area will be reduced to the non-forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed."

7. The proposal was reconsidered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) and recommended in its 17th EAC meeting held on 23rd -- 25th July, 2014 for granting Environmental Clearance. The Ministry of Environment, Forests & Climate Change hereby accords environmental clearance for the above-mentioned **Expansion (Under 7(ii) of EIA Notification, 2006) of Nigahi Opencast Expansion Coal Mining Project of (15 MTPA to 18.75 MTPA in an ML area of 2650.40 ha (3036.40 Ha – 386 Ha = 2650.40 ha); Latitude 24^o07'30" to 24^o10'58" N and Longitude 82^o36'24" to 82^o 39'28"E) of M/s Northern Coalfields Ltd., Dist. Singrauli, Madhya Pradesh** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments thereto subject to the compliance of the terms and conditions mentioned below. You will need to seek and obtain approval under the FC Act for diversion of the entire forest land located within the mining lease within a period of two years from the date of issue of these guidelines (i.e. 01 February, 2013), failing which the mining lease area will be reduced to the non-forest area plus the forest area for which you have been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, you will need to get a revised mining plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be construed to be available for the mining lease area as per the revised mining lease deed.

A. Specific Conditions:

- i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- ii. No mining operations shall be undertaken of forestland until prior clearance has been obtained under the provisions of FC Act, 1980.
- iii. The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.
- iv. The construction of retaining wall shall be completed during the Financial Year 2014-15. For a length of 160 m.
- v. Additional 2 nos. of mobile water sprinkler of 60/70 KL capacity shall be completed during 2014-2015.
- vi. Two Rain water harvesting structures shall be installed.
- vii. One water recharging reservoir shall be installed.
- viii. The recommendations of the Health study conducted by NIOH, Ahmedabad shall be implemented.
- ix. Fixed water sprinkling system for a length of 1.6 Km of Haul Road length shall be undertaken financial year 2014-15.
- x. The action plan as recommended in the Report of SPCB in the CEPI report shall be implemented.



- xi. Piezometers shall be installed at the level of aquifer in the selected villages within three months.
- xii. The project authorities shall carry out a study for zero discharge from NCL mines by considering various options for using excess treated effluents including artificial recharge and the report on the same shall be submitted to this Ministry within six months of issue of this clearance letter.
- xiii. Coal transportation in pit shall be by dumper, Surface to Siding by CHP and siding to loading through SILO and MGR.
- xiv. Major approach roads and haul roads shall be metal topped.
- xv. The production shall be within the same Mining Lease area.
- xvi. The OB shall be completely re-handled at the end of the mining. The land after mining shall be brought back for agriculture purpose.
- xvii. Final mine void depth will not be more than 40 m. The void area will be converted into water body. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.
- xviii. Garland drains be provided.
- xix. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xx. Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.
- xxi. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- xxii. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.
- xxiii. People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.
- xxiv. The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.
- xxv. The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.
- xxvi. There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.
- xxvii. OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forests & Climate Change and its concerned Regional office on yearly basis.
- xxviii. Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.
- xxix. 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.
- xxx. Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
- xxxi. Drills shall be wet operated.
- xxxii. The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach roads,

- xxxiii. Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.
- xxxiv. A Progressive afforestation plan shall be implemented covering an area of 2158.0 ha at the end of mining, which includes reclaimed External OB dump area (418 ha), Internal OB dump area (1405 ha) and Green belt (335 ha) and in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.
- xxxv. An estimated total 1776.65 Mm³ of OB will be generated during the entire life of the mine. Out of which 231 Mm³ of OB will be dumped in two external OB Dumps an earmarked area covering 418 ha of land. 1545.65 Mm³ of will be dumped in four internal OB dump in covering an area of 1405 ha. The maximum height of external OB dump for hard OB will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MOEFCC and its Regional Office on yearly basis.
- xxxvi. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxvii. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
- xxxviii. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
- xxxix. No groundwater shall be used for mining operations.
 - xl. Of the total quarry area of 1665 ha, the backfilled quarry area of 1405 ha shall be reclaimed with plantation and a void of 60 ha at a depth of 30-40 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.
 - xli. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity shall be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected shall be submitted to the Ministry of Environment, Forests & Climate Change and to the Central Pollution Control Board quarterly within one month of monitoring.
 - xlii. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.
 - xliv. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
 - xlv. Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency /institution within the District/State and the results reported to this Ministry and to DGMS.
 - xlv. Land oustees shall be compensated as per the norms laid out R&R Policy of CIL or the National R&R Policy or R&R Policy of the State Government whichever is higher.
 - xlvi. For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1: 5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEFCC and its concerned Regional office.
 - xlvi. A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forests & Climate Change within 6 months of grant of Environmental Clearance.



xlvi. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.

xlix. Corporate Environment Responsibility:

- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. General Conditions

- i. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- ii. No change in the calendar plan of production for quantum of mineral coal shall be made.
- iii. Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM₁₀, PM_{2.5}, SO₂ and NO_x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.
- iv. Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.
- v. Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.
- vi. Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.
- vii. Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.
- viii. Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board and data got analysed through a laboratory recognised under EPA Rules, 1986.
- ix. Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
- x. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.

- xi. A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- xii. The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- xiii. The Project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution control Board and may also be seen at the website of the Ministry of Environment, Forests & Climate Change at <http://envfor.nic.in>.
- xiv. A copy of the environmental clearance letter shall be marked to concern Panchayat/Zila Parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom any suggestion/representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.
- xv. A copy of the environmental clearance letter shall be shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/Tehsildar's Office for 30 days.
- xvi. The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x (ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.
- xvii. The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office s of CPCB and the SPCB.
- xviii. The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.
- xix. The Environmental statement for each financial year ending 31 March in For –V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.

8. The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.

9. The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent

10. The proponent is required to obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

11. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

12. The Proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC Conditions.



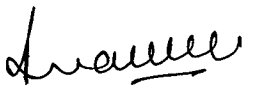
13. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

14. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of groundwater and surface water, and occupational and other diseases due to the mining operations.

15. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

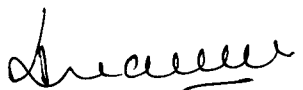
16. This EC supersedes the earlier EC, vide letter no. J-11015/235/2006-IA.II (M) dated 08.05.2007 for 15 MTPA within same mining lease area.

17. EC would be subject to the final order of the Supreme Court Judgement dated 24th February, 2014 in the matter.


(Dr. R. Warriér)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal 462016.
3. Secretary, Department of Environment & Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
4. Member Secretary, Madhya Pradesh State Pollution Control Board, Kalapataru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400002.
5. Member Secretary, Central Pollution Control Board, CBD-cum-Office Complex, East Arjun Nagar, New Delhi -110032.
6. Member-Secretary, Central Ground Water Authority, Ministry of Water Resources, Curzon Road Barracks, A-2, W-3 Kasturba Gandhi Marg, New Delhi.
7. District Collector, Chandrapur, Government of Madhya Pradesh.
8. EI Division, Ministry of Environment & Forests, New Delhi
9. Monitoring File 10. Guard File 11. Record File. 12. Notice Board


(Dr. R. Warriér)
Director