

No. J-11015/423/2008-IA-II (M)
Government of India
Ministry of Environment, Forests & Climate Change
IA-II (Coal Mining Division)

Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi-110003

Dated: 30th January, 2015

To,

The Chief General Manager (CP&P)
M/s Mahanadi Coal Fields Ltd.,
Bhubaneshwari OCP,
P.O. Jagriti Vihar, BURLA,
Dist. Sambalpur-768020,
Odisha.

Email: gmenvt_mcl@yahoo.co.in

Sub. : Expansion of Lajkura Open Cast Expansion (from 3.0 MTPA to 4.5 MTPA in an ML area of 721.29 ha); latitude 21°48'39" to 21°49'55" (N) and longitude 83°53'15" to 83°54'50" (E) of M/s Mahanadi Coalfields Limited, Dist. Jharsuguda, Odisha - EC under 7(ii) of EIA Notification, 2006 – Environmental Clearance - reg.

Sir,

This is with reference to letter no. MCL.SBP/CGM(ENVVT)2014/4414 dated 01.09.2014 with the application and subsequent letter nos. dated 15.10.2014; 27.11.2014 and 16.12.2014 for Environmental Clearance for Expansion under 7(ii) of EIA Notification 2006 for the above-mentioned project.

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 of Lajkura Open Cast Expansion (from 3.0 MTPA to 4.5 MTPA in an ML area of 721.29 ha); latitude 21°48'39" to 21°49'55" (N) and longitude 83°53'15" to 83°54'50" (E) of M/s Mahanadi Coalfields Limited, Dist. Jharsuguda, Odisha under 7(ii) of EIA Notification, 2006**. The proposal was considered in the 17th EAC meeting held on 13th – 14th November, 2014 and re-considered in the 27th EAC meeting held on 18th - 19th December, 2014. The proponent has informed that:

- i. EC for Expansion from 1.0 MTPA to 3.0 MTPA was granted by MoEF vide letter J-11015/423/2008-IA.II dated 12.03.2013.
- ii. The latitude and longitude of the project are 21°48'39" to 21°49'55" (N) and 83°53'15" to 83°54'50" (E) respectively.
- iii. There is no Joint Venture.
- iv. The proposal has the coal linkage to Thermal power plants KPKD, KRPH, VZP, VSPC, Chandrapur CD, MIGK, KIG, Bhusawal, Parli, Paras, STDV etc. Captive power Plants: - Steel Plant Raurkela, Usha Martine Gamariha and Damanjodi.
- v. The land usage of the project will be as follows:

Pre-Mining:

Sl.	Item	Total for 3.0 Mty	Addl. land for incremental production (1.5Mty)	Total for 4.5 Mty
1	Quarry excavation	398.34	--	398.3
2	Safety zone (existing)	38.38	--	38.38
	Safety zone (proposed expansion project) (excluding dump falling in this zone)	52.11	--	52.11
3	dump area (external) (existing)	37.50	--	37.5
	dump area (external) (expansion)	151.63	--	151.6
4	Infrastructure	33.61	--	33.61
5	Rationalisation of project boundary	9.72	--	9.72
6	Safety zone (proposed expansion project)	42.39*	--	42.39*
	Mining lease area (1 to 5)	721.29	--	721.3
6	Residential colony	24.95	--	24.95
7	Rehabilitation colony	32.00	--	32
	Outside Lease area (6 to 7)	56.95	--	56.95
	Total :	778.24	--	778.2

Post- Mining:

Post-mining land use							
S.N.	Category	Land use (in ha)					Total
		Plantation	Water body	Dip side slope & haul road	Built-up area	Undis- turbed	
1.	Quarry excavation	326.00	17.17	55.17	--	--	398.34
2.	Safety zone (existing)	7.68	--	--	--	30.70	38.38
	Safety zone (proposed expansion project) (excluding OB dump falling in this zone)	10.42	--	--	--	41.69	52.11
3.	OB dump area (external) (existing)	37.50	--	--	--	--	37.50
	OB dump area (external) (expansion)	151.63	--	--	--	--	151.63
4.	Infrastructure	6.72	--	--	26.89	--	33.61
5.	Rationalisation of project boundary	9.72	--	--	--	--	9.72
	Mining lease area (1 to 5)	549.67	17.17	55.17	26.89	72.39	721.29
6.	Residential colony	5.00	--	--	19.95	--	24.95
7.	Rehabilitation colony	6.40	--	--	25.60	--	32.00
	Outside Lease area (6 to 7)	11.40	--	--	45.55	--	56.95
	Total :	561.07	17.17	55.17	72.44	72.39	778.24

Core area :

Sl	Particulars	Existing 3.0 Mty	Addl land for Incremental 1.5 Mty	Total 4.5 Mty
a)	Agriculture	-	-	-
b)	Forest	156.67	-	156.67
c)	Waste land	-	-	-
d)	Grazing	3.11	-	3.11
e)	Surface water bodies	5.87	-	5.87
f)	Others(Specify)	555.64	-	555.64
	Total	721.29	-	721.3

- vi. The total geological reserve is 88.22MT. The mineable reserve 59.44 MT, extractable reserve is 59.44 MT. The per cent of extraction would be 86.33 %.
- vii. The coal grade is F & G. The stripping ratio is 3.40 m³/T. The average Gradient is 30- 50. There will be 4 seams with thickness ranging upto 22.24 M.
- viii. The total estimated water requirement is 1448 m³/day (Potable:588 KLD, Industrial: 860 KLD). The level of ground water ranges from 0.75 m bgl to 9.0 m bgl
- ix. The Method of mining would be opencast using Shovel Dumper Mining Technology
- x. There is three external OB dump with Quantity of 47.50 Mbcm in an area of 106.63 ha with height of 81.50 meter above the surface level and one internal dump with Quantity of 311.85 Mbcm in an area of 398.34 ha.
- xi. No void will be left after the mining.
- xii. The seasonal data for ambient air quality has been documented and all results at all stations are within prescribed limits.
- xiii. The **life of mine** is 14 years as on 01.04.2014.
- xiv. **Transportation:** Coal transportation in pit by Tippers, Surface to Siding by Tippers and loading at siding by Pay loader/ SILO.
- xv. There is No additional R&R is required for the proposed project. There are 186 PAFs for the existing project.
- xvi. **Cost:** Total capital cost of the project is Rs. 43.27 Cr (additional capital investment for 2.5 Mty- normative & 3.0 Mty Peak). CSR Cost Rs. 32.93 crores/year. No additional cost is required for R&R. Environmental Management Cost Rs. 27.26/ Te (as per EIA-EMP.) + Mine closure cost of Rs.86.75 Cr.
- xvii. **Water body:** Baghmaranalah flowing adjacent to the proposed mine.
- xviii. **Approvals:** Ground water clearance is not applicable as the area is not falling under critical area as per CGWA. Mining plan approval obtained on 13.10.2014. Mine Closure Plan Approved by MCL Board on 22.06.2011 for 3.0 Mty.
- xix. **Wildlife issues:** There are no national Parks, wildlife sanctuary, biosphere reserves found in the 10 km buffer zone.
- xx. **Forestry issues:** Total forest area involved 156.67 ha for mining. Forest Clearance (stage-I) for 159.18 ha. has been obtained vide letter No. 8-28/2014-FC DT: 29.07.2014.
- xxi. Total **afforestation** plan shall be implemented covering an area of 561.07 ha at the end of mining. Green Belt over an area of 34.54 ha. Density of tree plantation 2500 trees/ ha of plants.



xxii. **Court cases/ violation:**

- a. State Govt. has filed a case against the proponent under section 15 and 16 of the Environment (Protection) Act, 1986 in the court of Chief Judicial Magistrate vide case no. 288/2013 dated 23.02.2013 for exceeding production beyond EC capacity . Case is presently in High Court, Odisha.
- b. Fifteen Land compensation related cases are under consideration by the court.

xxiii. **Public Hearing** was held on 22.01.2011.

xxiv. Life of the mine (4.5 Mty) is around 14 years from 2014-15. For Lajkura 4.5 Mty capacity, Rapid Loading System (RLS) with surge bin will be provided instead of Silo. The RLS will be located near Lajkura siding 1 or siding 2.

xxv. For transportation of coal from quarry, in pit conveyor transportation is feasible along the central haul road and the same to be loaded through RLS. The preparation of scheme with competent approval and formulation of e-NIT and to float the e-NIT, the total time requirement will be around to 1 year. The construction period of coal transportation system (CHP) with RLS will be around 18 months (1 ½ years). Cost will be around 100 Cr. (Tentative).

xxvi. There shall not be any additional External dump other than what has been proposed in the earlier proposal for expansion form 1.0 Mty to 3.0 Mty in Mining lease Area of 721.29 Ha.

xxvii. All the action plans under the CEPI is being and will be adhered to. Details of rail and Road transport of Coal from the mine to the end user is given below:

Mode of despatch	2013-14	(%)	2014-15 (up to oct 2014)	(%)
By Rail	1.098 Mt	52.97 %	1.025 Mt	84.71%
By Road	0.975 Mt	47.03%	0.185 Mt	15.29%
Total	2.073 Mt		1.210 Mt	

xxviii. There are five mines of MCL in the Ib Valley. The detailed status of voids, OBDs and total cost including time frame for re-handling are as follows:

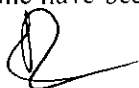
Name Of Mine	Present Void	Post Mining Void (Mcum)	Post Mining Depth (M)	Post Closure Void (Mcum)	Post Closure Depth (M)	Year Of Exhaustion	Remarks
Lajkura	not Sufficient for own OB	149.244	159	NIL		YR14	Initial OB Generation will be dumped externally, later all OB will be dumped internally. Extension can be done towards dipside
Samaleswari	Sufficient for own OB	154.39	120	63.99	30-60	YR4	All OB will be dumped internally. Extension can be done towards dipside

Belpahar	Sufficient for own OB	140	92	34	15-40	YR7	All OB will be dumped internally. Extension can be done towards dipside
Lakhanpur Exp	Sufficient for own OB	390	123	46.83	30	YR16	All OB will be dumped internally. Extension can be done towards dipside
Lillari	Reserve almost exhausted	10	90				water reservoir

- xxix. Re-handling cost has been included in the Mine Closure cost. An Escrow account has been opened separately for each project in which mine closure cost as per the Guidelines of MoC is deposited annually.
- xxx. A baseline information on Air and Water quality of the pre-project, present situation and the expansion stage are within the prescribed limit.
- xxxi. 17 piezometers are proposed to be constructed in Ib Valley Coalfields. (10 nos. in Jharsuguda district as shown in the plan, and 07 nos in Sundergarh district.). NIT under finalization. Estimated cost is Rs. 2.0 Cr. The depth of the piezometers proposed is upto the depth of mining and varies from 105 mts to 291 mts.

3. **EC Compliance report: The compliance report of the**, Regional Office, MoEFCC at Bhubaneswar vide letter no. 106-696/EPE dt: 30.10.2014 was deliberated in the EAC meeting. The Committee has noted the Action taken for compliance by the Project which, inter alia, are as follows:

- Social audit has been carried out in 40 peripheral villages of MCL, by Tata Institute of Social Science (TISS) Mumbai. Major recommendation includes ensure the availability of safe drinking water to the villagers.; Company can work with panchayat and run the community toilets; Company can plan an intervention to increase the employability for the women; Company with the collaboration of Gram Panchayat can provide solar lights or work on electricity.
- A new pond has been created in Madhuban Nagar (R&R site) recently. Deepening & cleaning of existing village pond are taken up periodically. Drinking water supply has been made to peripheral villages (Balput, Katapalli, Bundia, Kudopali, Ainapali, Sanjob, Chuakani, Madhuban Nagar, Lamtibahal, Ramgarh, Brajrajnagar).
- De-silting of Settling tank of ETP completed at a cost of 2.20 lakhs. Proposal for additional ETP of 40 cum/hr has been processed. STP (0.5 MLD) is under construction Recycling arrangement has been envisaged in all the above treatment facilities. Work of recycling arrangement in the existing ETP has started and will be completed by January 2015.
- CSR works have been identified with the involvement of the local Panchayat in fulfilment of the CSR policy of MCL & budgetary allocations have been made. Need assessment of all the major CSR works is being carried out by RPDAC (Rehabilitation & Periphery Development Advisory Committee). This is a designated and unique body created Govt. of Odisha. The occupational health surveillance report of the employees has been submitted in the half yearly compliance report up to March 2014 ending
- The plantation programme for the year 2015-16 will be taken up in the mentioned area. The soil and water conservation programme have been planned and are under implementation including cleaning of garland drains.



4. The proposal was reconsidered in the Expert Appraisal Committee (EAC) (Thermal & Coal Mining) and recommended in 27th EAC meeting held on 18th - 19th December, 2014 for granting Environmental Clearance. The Ministry of Environment, Forests and Climate Change hereby accords environmental clearance for the above-mentioned **Expansion of Lajkura Open Cast Expansion (from 3.0 MTPA to 4.5 MTPA in an ML area of 721.29 ha); latitude 21°48'39" to 21°49'55" (N) and longitude 83°53'15" to 83°54'50" (E) of M/s Mahanadi Coalfields Limited, Dist. Jharsuguda, Odisha under 7(ii) of EIA Notification, 2006** under the provisions of the Environment Impact Assessment Notification, 2006 and subsequent amendments/circulars thereto subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions:

- i. The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.
- ii. The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.
- iii. A plan be made urgently for mechanized loading of railway wagon at the railway siding to reduce dust generation from loading by pay loader.
- iv. Drills shall be wet operated. Roads shall be metal topped and mechanical sweepers shall be regularly deployed to clear the dust off the main approach and mineral transportation roads. Water sprinkling (fixed and mist type, mobile) shall be regularly done along the main haul roads
- v. No fly ash shall be dumped into the decoaled void without feasibility studies on long-term impacts on the aquifers and life systems and without prior approval of the Ministry.
- vi. Piezometers shall be installed upto the depth of the mine.
- vii. Air Quality shall be monitored and the report submitted to the Regional Office of the MoEFCC and to the Odisha SPCB.
- viii. Coal transportation in pit by Tippers, Surface to Siding by Tippers and loading at siding by Pay loader/ SILO.
- ix. The production shall be within the same Mining Lease area.
- x. The depth of the internal void shall be 35 m from the ground level and should be adequate for fishery purpose.
- xi. The production shall be within the same Mining Lease area.
- xii. The OB shall be completely re-handled at the end of the mining and will be back filled upto the ground level and covered with about a meter thick top soil and put to use. The land after mining shall be brought back for agriculture purpose.
- xiii. Garland drains be provided.
- xiv. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.
- xv. The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.
- xvi. Everybody in the core area should be provided with mask for protection against fugitive dust emissions.
- xvii. Dust mask to be provided to everyone working in the mining area.
- xviii. The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.
- xix. 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.
- xx. The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.



- xxi. 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.
- xxii. 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.
- xxiii. OB shall be stacked at three 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.
- xxiv. 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.
- xxv. 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.
- xxvi. 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.
- xxvii. Drills shall be wet operated.
- xxviii. 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,
- xxix. 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.
- xxx. A Progressive afforestation plan shall be implemented covering an area of 445.68 ha at the end of mining, which includes reclaimed External OB dump area (189.13 ha), Internal OB dump area (156.67 ha), along roads and Green belt (398.34 ha), Undisturbed area (72.39 Ha) Built up area (26.89 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.
- xxxi. An estimated total 359.35 Mm³ of OB will be generated during the entire life of the mine. Out of which 47.50 Mm³ of OB will be dumped in three external OB Dumps an earmarked area covering 106.63 ha of land with height of 90 m. 311.85 Mm³ of will be one internal OB dump in covering an area of 398.34 ha with height Up-to ground level. The maximum height of external OB dump for hard OB will not exceed 90 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 MOEF and its Regional Office on yearly basis.
- xxxii. The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.
- xxxiii. Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.
- xxxiv. The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.
- xxxv. No groundwater shall be used for mining operations.
- xxxvi. Of the total quarry area of 398.34 ha. the backfilled quarry area of 398.34 ha shall be reclaimed with plantation 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.

- xxxvii. Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers. 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 the Central Pollution Control Board quarterly within one month of monitoring.
- xxxviii. 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.
- xxxix. Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.
- xl. 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.
- xli. 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.
- xlii. 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 MOEF&CC and its concerned Regional office
- xliii. 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.
- xliv. The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.
- xl. Corporate Environment Responsibility:
- The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - 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.
 - 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.
 - 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

- No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.
- No change in the calendar plan of production for quantum of mineral coal shall be made.
- 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.

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

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

7. 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.

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

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

10. 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.

11. 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.

12. 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.

13. This EC supersedes the earlier EC, vide letter no. letter J-11015/423/2008-IA.II dated 12.03.2013 for 3.00 MTPA.


(Dr. Manoranjan Hota)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.

2. Secretary, Department of Environment & Forests, Government of Orissa, Secretariat, Bhubaneswar, Orissa.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, A-31, Chandrashekarapur, Bhubaneswar – 751023, Orissa.
4. Member Secretary, Orissa State Pollution Control Board, Parivesh Bhawan, A/118, Nilkanthanagar, Unit VIII, Bhubaneswar – 751012, Orissa.
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. Dr. R.K. Garg, Advisor, Coal India Limited, SCOPE Minar, Core-I, 4t Floor, Vikas Marg, Laxmi Nagar, New Delhi.
8. District Collector, Jharsuguda, Government of Odisha.
9. .
10. Monitoring File 10. Guard File 11. Record File. 12. Notice Board


(Dr. Manoranjan Hota)
Director

