



Ministry of Environment & Forests

No.J-11015/288/2007-IA.II (M)

Paryavaran Bhawan,
CGO Complex, Lodi Road
New Delhi-110003

To

Dated: 12th June 2012

M/s Jindal Power & Ltd.,
Tamnar, Tehsil Gharghoda,
Raigarh,
Chhattisgarh--496107

Sub: Gare IV/2 and IV/3 Opencast and Underground Coal Mining Project of a combined production of 6.25 MTPA (OCP from 5.25 MTPA to 6.25 MTPA and 0.75 MTPA production in UGP) in an ML area of 964.65 ha and for establishment of a pit-head coal washery of 4.75 MTPA (800 TPH) within the Gare IV/2 and IV/3 ML of M/s Jindal Power Ltd. at Gharghoda Tehsil, Raigarh district, Chhattisgarh - Environmental Clearance-reg.

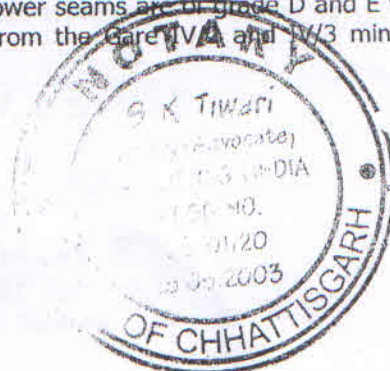
Sir,

This is with reference to letter No. JPL/MINES/07-03 dated 15.03.2007 along with application for Terms of Reference (TOR) for Underground coalmine for 0.9 MTPA and revised application for TOR vide letter dated JPL/1.10/DNA/2007/0704 dated 04.07.2007 for an OC-(expansion from 5.25 MTPA to 6.25 MTPA) cum-UG mine (0.75 MTPA) of a combined production capacity of 6.25 MTPA and in reference to letter no. JPL/Coal Washery/EC/001 dated 13.03.2007 for setting up of a coal washery of 4.75 MTPA (800 TPH) for the company's 1000 MW TPP in Chhattisgarh and to this Ministry's letter No. J-11015/288/2007-IA.II (M) dated 22.08.2007 and letter No.J-11015/253/2007-IA.II (M) dated 22.08.2007 granting TOR for preparation of an integrated EIA-EMP report for expansion of coal mine and for the establishment of a coal washery of 800 TPH within its premises. This further refers to your letter No. JPL/ GARE-IV /2&3/MoEF.VRK dated 20.01.2011 for environmental clearance based on the aforesaid TORs along with an Integrated EIA-EMP Report for Gare IV/2 and IV/3 OC-cum-UG Opencast-cum-Underground Coal Mining Project (expansion from 5.25 MTPA to 6.25 MTPA) cum-UG mine (0.75 MTPA) of a combined production capacity of 6.25 MTPA and for establishment of a new coal washery (4.75 MTPA) and your subsequent letters dated 18.02.2011, 24.03.2011, 06.06.2011, 04.07.2011, 12.10.2011, 19.12.2011 and 29.03.2012 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application.

It is noted that Gare IV/2 and IV/3 opencast coal mine project had obtained environmental clearance from MOEF on 22.09.2004 for a production capacity of 5.25 MTPA in an ML area of 964.65 ha by opencast mining of the upper seams. The present application is for expansion in production from 5.25 MTPA to a maximum of 6.25 MTPA by opencast mining and for undertaking UG mining of a maximum production capacity of 0.75 MTPA in the lower seams occurring at a depth of about 100m below the OC project within the ML area of 964.65 ha. The coal in the lower seams are of grade D and E which would help in reducing the ash content in the coal produced from the Gare IV/2 and IV/3 mine. The total

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combined production from both OC and UG mining would be 6.25 MTPA after complete development of the OC-cum-UG mine within the existing ML area of 964.65 ha and are to meet the requirements of the linked 1000-MW TPP of M/s Jindal Power Ltd. No additional land is involved for the OC expansion-cum UG project. The application is also for establishment of a pit-head coal washery of 4.75 MTPA capacity within the ML for washing the coal produced in the mine for captive use of the 1000 MW (4 x 250 MW) linked Thermal Power Station located at a distance of about 9 km from the mine. Opencast mining would be using hydraulic shovel-dumper. UG mining would be mechanised Board and Pillar method by caving. Mining operations would be opencast during the first 34 years and underground mining would begin from the 3rd year and continue until the end of mine life. Life of the OC mine is 34 years and UG mine is 41 years.

There are number of Reserved Forests (Sal forests) and Protected Forests found in the 10km buffer zone. Of the total lease area of 964.65 ha, 48.20 ha is forestland, 859.498 ha is tenancy/private land and 56.944 ha is Govt. land/revenue land. Forestry clearance has been obtained on 06.09.2004 for diversion of 48.208 ha of forestland. Of the total ML area of 964.65 ha, 866.25 ha is for quarry, 38.40 ha is for external dump including 10 ha for topsoil dump, 30 ha is for embankment, 15 ha is for CHP, washery & other infrastructure, roads, etc and 5 ha is for UG mine entries. It is proposed to divert Bendra Nala flowing through the ML area for a total length of 1230m whereby the quarry area was increased from 722.26 ha to 866.25 ha for conservation of 3.866MT of coal that can be mined in the stretch of the Nala to be diverted. The diversion would be undertaken as per the Revised Mining Plan dated 03.08.2009 by MOC and under the supervision of Hasdeo Kacher Water Resource Department (WRD), Bilaspur which has approved the proposed diversion of Bendra Nala vide letter dated 04.04.2011. It is also proposed to create an embankment of a length of about 5 km and a height of 6m along the diverted stretch of Bendra Nala and along the eastern bank of River Kelo to protect the mine from inundation.

The total estimated OB generation would be 561.6 Mm³ of which 541.6 Mm³ would be backfilled and 20 Mm³ would be externally dumped including in construction of embankment. In addition, about 3.905 Mm³ (5.07 MTPA) of flyash from the power plant is also proposed to be accommodated in the mine which involves mixing of fly ash with OB in the ratio of 25%:75% as per DGMS recommendations to prevent dump failures. A feasibility study on the dumping of flyash has been carried out. The ultimate working depth would be 155m bgl (east quarry) and 115m bgl (west quarry) for OC mine. Coal is to be transported from the mine by piped conveyors to the linked power plant located at the distance of 9 km. Ground water level in the core zone is 2-10m bgl (pre-monsoon) and 2-5 m bgl (post-monsoon). The total water requirement of the project 1790 m³/d which includes 600 m³/d for dust suppression, 100 m³/day for green belt, 1000m³/day for Coal washery (make up), and 90 m³/day for domestic use. The total mine discharge water is 4872 m³/d.

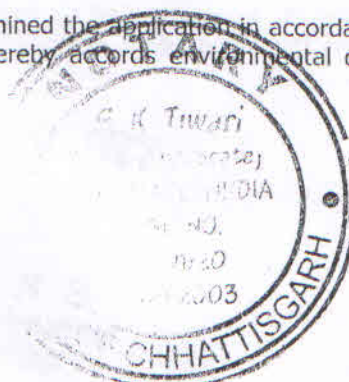
In addition, a Coal Washery of 4.75 MTPA (800 TPH) capacity has been established in an area of 8.66 ha. The washery is to operate on wet process using Heavy Media Cyclone, thickener, Multi Roll Belt press filter with zero discharge of water/effluent. Raw coal (4.75 MT of 54 % ash) from the opencast mine would yield clean (washed) coal and fines of about 2.99 MTPA (with an ash content 41.5%) for the power plant and the rest would be discard/rejects of 1.76 MTPA (with 77% ash) which are proposed to be backfilled into the mines.

The expansion project does not involve R&R. Activities under CSR would continue for life of the mine (41 years) with a budgetary provision of Rs 5/T of coal or Rs 3.21 crores per annum. Cost of EMP is Rs 1451.97 lakhs which includes EMP costs washery is Rs. 837.81 lakhs and the annual recurring cost for EMP would be 442.09 lakhs. Public Hearing for the coalmine (OC-cum-UG)-cum washery was held on 23.10.2010. Capital cost of the coalmine project is Rs. 15 crores and for the washery is Rs 45 crores. Revised Mining Plan for the OC-cum-UG mine of a combined production of 6.25 MTPA project has been approved by the Ministry of Coal on 03.08.2009.

2. The Ministry of Environment & Forests has examined the application in accordance with the EIA Notification 2006 and under the provisions thereof, hereby accords environmental clearance for the

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above-mentioned **Gare IV/2 and IV/3 Opencast (expansion in production from 5.25 MTPA to 6.25 MTPA) and Underground Coal Mine Project (0.75 MTPA) for a combined production of coal of 6.25 MTPA and a Coal Washery of 4.75 MTPA capacity of M/s Jindal Power Ltd. within the existing mining lease area of 964.65 ha** under the provisions of the Environmental Impact Assessment Notification, 2006 and amendments thereto and Circulars issued thereon and subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) Maximum production by opencast mining shall not exceed 6.25 MTPA and that by underground mining shall not exceed 0.75 MTPA. The maximum combined production at any given time shall not exceed 6.25 MTPA from both opencast and underground mining.
- (ii) The mining operations shall be opencast during the first 34 years and underground mining shall begin from the 3rd year and continue until the end of mine life.
- (iii) Before starting underground mining, the void shall be properly backfilled, stabilised and reclamation undertaken. Sufficient parting shall be maintained between the bottom most OC seam and top most UG seam.
- (iv) Diversion of Bendra Nala flowing through the ML area for a total length of 1230m shall be undertaken under the supervision of Hasdeo Kacher Water Resource Department (WRD), Bilaspur. The diversion channel of Bendra nala shall follow the natural gradient and join at the point of original exit at the ML boundary in its original course, so that the downstream users of Bendra Nala are not affected due to the proposed diversion. Monitoring of water quality of River Kelo and Bendra Nala upstream and downstream of the mine shall be monitored as per General Standards prescribed under EPA Rules, 1986 and data thereon uploaded regularly on the company website and also furnished as part of the Compliance Report to MOEF RO, Bhopal.
- (v) Mining shall be carried out as per statute at a safe distance from River Kelo. The embankment of 5 km length being constructed between River Kelo and the ML boundary shall be at least 6m higher than the HFL of River Kelo.
- (vi) The proponent shall strengthen the embankment along the diverted stretch of the Bendra Nala and along River Kelo adjoining the boundary of the mine using large boulders in wire mesh along diverted Bendra nala and then along the eastern bank of Kelo river and grouting of weak portions of the embankment to protect the mine from flooding. The slope of the embankment towards the river shall at least 1:3 for stability and shall be stabilised with plantation using native species selected from the study area.
- (vii) Top soil shall be stored in the earmarked area and used for green belt development and for plantation/reclamation within a year of its generation. Green belt development shall be completed within the first 3 years of mining operation.
- (viii) OB shall be stacked at earmarked external OB dumpsites of 48.40 ha within ML area. The maximum height of the external OB dump shall not exceed 60m. 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 and its Regional office located at Bhopal on yearly basis.
- (ix) 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

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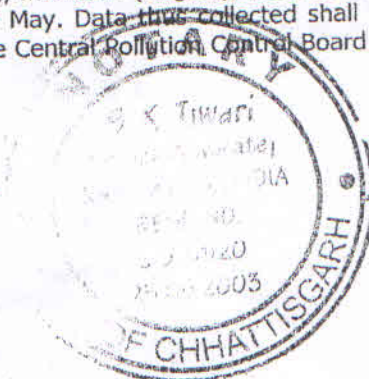
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- (xxii) The proponent shall maintain proper records of the ash content of raw (ROM) coal, clean coal, middling and coal rejects along with quantum of raw coal obtained and washed and dispatched every month and the same shall be uploaded on the company website every month.
- (xxiii) The entire quantity of clean coal shall be transported by conveyor only to the linked TPP located at a distance of 9km from the mine.
- (xxiv) All internal roads shall be concreted or black topped and the approach roads used for the project shall be blacked topped. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- (xxv) The roads (internal/approach/and roads used for the project) shall be regularly cleaned with mechanical sweepers and with water sprinklers. A 3-tier avenue plantation shall be developed along the major approach roads, internal roads and nearby roads used by the company.
- (xxvi) Green belt shall be developed along the areas such as the washery unit, crushing unit, and stockyards and at transfer points.
- (xxvii) Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Dust extractors and mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of belt conveyor systems which shall be closed and from transportation roads.
- (xxviii) The proponent shall ensure that coal rejects of 1.76 MTPA such as stones, shale and other wastes of an ash content of 77% or more only shall be dumped into the mine voids. Coal rejects with an ash content of 76% or less shall be fully utilised in TPP for power generation.
- (xxix) An estimated 3.905 Mm³ (5.07 MTPA) of flyash from the power plant to be accommodated in the mine, shall be dumped in the mine void in alternate layers of flyash and OB in the ratio of 25%:75% as per DGMS approval, after the initial row of OB of not less than 15m thickness to prevent dump failures.
- (xxx) Continuous monitoring of long-term impacts of dumping of flyash (for life of the mine) and leaching of heavy metals on soil and water quality of the study area shall be undertaken and the details of which shall be submitted to the Central Ground Water Board, SPCB and to the Regional Office of this Ministry at Bhopal as part of the compliance report. Permanent monitoring arrangements such as peizometers shall be established in and around the mine area covering the potential impact zone for contamination of heavy metals due to leachates from the flyash and in case of increasing levels of heavy metals detected in the groundwater, further dumping of flyash shall be stopped immediately. Independent Third-Part monitoring of the impacts of dumping of flyash shall also be undertaken and reported to the regulatory authorities and uploaded on the company website.
- In case disposal of flyash into the decoaled voids is not found to be an environmentally suitable option, the balance void shall be backfilled with only OB or converted into a water reservoir of a max. depth of 35m and shall be gently sloped and the upper benches of the reservoir shall be stabilised with plantation and the periphery of the reservoir fenced.
- (xxxi) 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 and to the Central Pollution Control Board quarterly within one month of monitoring.

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watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly.

- (x) 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.
- (xi) 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.
- (xii) During underground mining, while extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area. At the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.
- (xiii) Sufficient coal pillars shall be left unextracted around the airshaft (within the subsidence influence area) to protect from any damage from subsidence, if any.
- (xiv) Solid barriers shall be left below habitation, agricultural land, roads falling within the blocks to avoid subsidence. No depillaring operation shall be carried out below the roads and habitation area found within the lease. In case of subsidence, the land shall be acquired and compensation provided as per Policy/rules.
- (xv) Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures shall be taken to avoid loss of life and material. Cracks shall be effectively plugged with ballast and clayey soil/suitable material.
- (xvi) Crushers at the CHP shall be operated with high efficiency bag filters/water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system which shall be closed, haulage roads, transfer points, etc.
- (xvii) Drills shall be wet operated only.
- (xviii) 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.
- (xix) Coal (18,000 TPD) shall be transported from the mine by 7-km long piped conveyors only to the linked power plant located at the distance of 9 km.
- (xx) The Washery unit shall be a zero-discharge facility and no wastewater shall be discharged from the washery into the drains/natural watercourses. No groundwater shall be used for washery operations. Recycled water shall be used for development and maintenance of green belt and in the plant operations.
- (xxi) The raw coal, washed coal and middling and coal wastes (rejects) shall be stacked properly at earmarked site(s) within sheds/stockyards fitted with wind breakers/shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.

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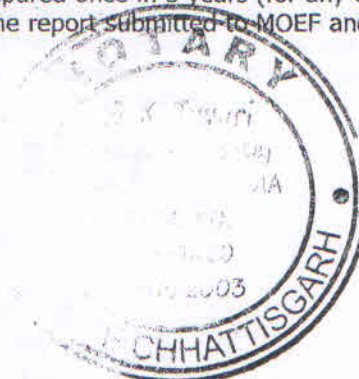
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- (xxxii) As the entire mine water is proposed to be used for the mine-cum-washery operations, measures shall be taken for recharging ground water in and around the mine in the study area and for agricultural use. A Plan for water conservation and recharge measures of ground water along with budgetary provisions be prepared and implemented in consultation with the Central/State Ground Water Board to mitigate the adverse impact of mining which may lead to depletion of ground water in the area. The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring of groundwater levels indicate decline of water table. Any additional water requirement for mining operation shall be met from rainwater use only. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine. It shall be ensured that if the river/nala discharge of mine water takes place, it shall be treated to conform to prescribed standards before discharge.
- (xxxiii) ETP shall also be provided for treatment of effluents from workshop, CHP and an STP shall be provided in the colony and the treated effluents shall be used for green belt development. Outflow of rainfall, if any, from the mine shall meet prescribed norms and the water quality of such discharge shall be monitored at the exit points and records maintained thereof and also uploaded on the company website.
- (xxxiv) An afforestation plan covering an area not less than 938 ha shall be implemented, which includes backfilled area (833 ha) and are originally covered by ext. OB dump (48.20 ha), along ML boundary, green belt, embankment (30 ha), along roads and infrastructure, undisturbed/vacant land by planting native species such as Sal, Tendu, Mahua, etc in consultation with the local DFO/Agriculture Department/institution with the relevant discipline. The density of the trees shall be around 2500 plants per ha.
- (xxxv) Backfilling shall start by the 3rd year of operations and completed by 34th year with cessation of opencast operations. Of the total excavated area of 866.25 ha, about 833 ha shall be backfilled and reclaimed 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. The balance 30m of void shall be left as a water body and the upper benches of the water body shall be gently sloped and stabilised and reclaimed with plantation.
- (xxxvi) A Programme for conservation of the wildlife particularly for the Indian Elephant reported in the study area and for other rare and endangered species/Schedule-I fauna and endangered flora and species of medicinal importance found in the study area shall be formulated and implemented in consultation with the Forest and Wildlife Departments in the State Government. Separate funds shall be earmarked for implementation of the various activities there under and the status thereof shall be regularly reported to this Ministry and the MOEF Regional Office, Bhopal and also uploaded on the company website. The project authorities shall participate in a Regional Action Plan of the State Government for conservation of flora and fauna found within the study area.
- (xxxvii) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through a recognised agency found in the district, and the results reported to this Ministry and to DGMS.
- (xxxviii) For monitoring land use pattern and for post mining land use, a time series of landuse 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 and its Regional office at Bhopal.

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season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.

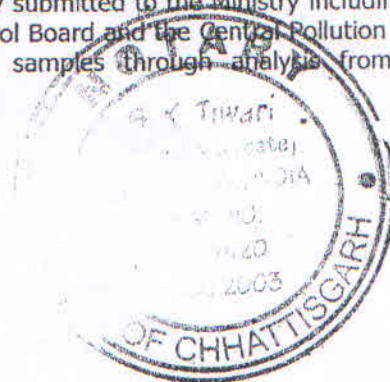
- (xxxix) Cost for environmental protection measures shall be not less than Rs 1451.97 lakhs (capital) including Rs 837.81 lakhs for the washery and the annual recurring costs shall be not less than Rs. 442.09 lakhs.
- (xxxx) The activities under CSR shall continue for life of the mine (41 years) and a provision of Rs 5/T of coal or Rs 2.6 crores (whichever is higher) adjusted according to value of the rupee, shall be undertaken for the villages in the study area until end of mine life. Details of village-wise activities under CSR along with the activities and budgetary provision shall be uploaded on the company website and the status of its implementation along with expenditure thereon and also desired that a Third party audit of implementation of CSR shall be done periodically.
- (xxxxi) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests five year before mine closure for approval. Habitat Restoration Plan of the mine area shall be carried out using a mix of native species found in the original ecosystem, which were conserved in-situ and ex-situ in an identified area within the lease for reintroduction in the mine during mine reclamation and at the post mining stage for habitat restoration.
- (xxxxii) 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 and Forests.
- No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.
- Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring PM₁₀, PM_{2.5}, SO₂ and NO_x. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, in PM₁₀ and PM_{2.5} etc. shall be carried out at least once in a year.
- Data on ambient air quality (PM₁₀, PM_{2.5}, SO₂ and NO_x and heavy metals such as Hg, As, Ni, Cr, etc) and other monitoring data shall be regularly submitted to the Ministry including its Regional Office at Bhopal 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

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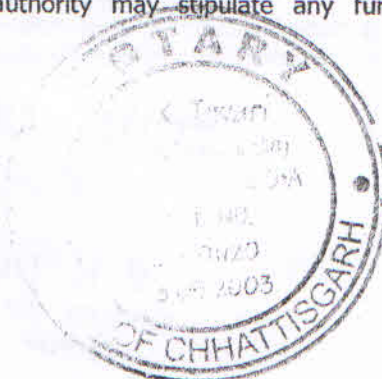
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- (v) Fugitive dust emissions (PM₁₀, PM_{2.5} and heavy metals such as Hg, Pb, Cr, As, etc) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.
 - (vi) 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.
 - (vii) 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.
 - (viii) Vehicular emissions shall be kept under control and regularly monitored.
 - (ix) Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.
 - (x) Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.
Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.
 - (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 Regional Office at Bhopal.
 - (xiii) The Regional Office of this Ministry located at Bhopal 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.
 - (xiv) A copy of the will be marked to concerned Panchayat/ local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
 - (xv) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
 - (xvi) 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 at <http://envfor.nic.in>. The compliance status shall also be uploaded by the project authorities in their website and regularly updated at least once in six months so as to bring the same in the public domain. The data shall also be displayed at the entrance of the project premises and mines office and in corporate office.
3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.

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3. The Ministry or any other competent authority may stipulate any further condition for environmental protection.
4. 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.
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. 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.



(Dr.T.Chandini)
Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment & Forests, Government of Chhattisgarh, Secretariat, Raipur.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arera Colony, Bhopal 462016.
4. Chairman, Chhattisgarh State Environment Conservation Board, 1-Tilak Nagar, Shiv Mandir Chowk, Main Road, Avanti Vihar, RAIPUR-Chhattisgarh- 492001.
5. Chairman, 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, Raigarh, Government of Chhattisgarh, New Delhi.
8. Monitoring File 9. Guard File 10. Record File.

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