

MAHARASHTRA POLLUTION CONTROL BOARD

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KALPATARU POINT, 3rd floor,
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RED/LSI

Consent No. BOND/APC/EIC No.CH-0895-12/R/CC-622 Date: 08/10/2012
Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation / Renewal of Authorisation under Rule 5 of the Hazardous Wastes (Management, Handling & Transboundary) Rules, 2006. (To be referred as Water Act, Air Act and HW (M.H & TM) Rules respectively)

Consent is hereby granted to

M/s Western Coal Fields Ltd.,
Hindustan Laipath Open Cast Project,
Chandrapur Area, Tal & Dist Chandrapur,

located in the area declared under the provisions of the Water Act, Air Act and Authorization under the provisions of HW (M.H & TM) Rules and amendments the etc. subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. The Consent to Operate is granted for a period up to 30.04.2015 or up to validity of mine lease period whichever is earlier.
2. The Consent is valid for the activity of Mining, over an mining lease area of 448.82 ha

Sr.No.	Product	Maximum Quantity
1)	Coal	10 Million Tones/Year

3. CONDITIONS UNDER WATER ACT:

(i) The daily quantity of trade effluent from the factory shall not exceed 25.0 m³ (including Mine Discharge)

(ii) The daily quantity of sewage effluent from the factory shall not exceed 1.0 m³.

(iii) Trade Effluent Treatment: The applicant shall provide complete and effective treatment system for trade effluent as is warranted with reference to effluent quality and quantity and maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

1)	pH	Between	6.5 to 11
2)	Suspended Solids	Not to exceed	100 mg/l
3)	BCD 3days 20 Deg C	Not to exceed	30 mg/l
4)	Oil & Grease	Not to exceed	10 mg/l
5)	Total Dissolved Solids	Not to exceed	2100 mg/l
6)	Chlorides	Not to exceed	600 mg/l
7)	Sulphate	Not to exceed	1300 mg/l
8)	Nitrate Nitrogen	Not to exceed	10 mg/l
9)	Phenolic	Not to exceed	1 mg/l

(iv) Trade Effluent Disposal: The treated effluent shall be used for any of mine pits to the maximum possible extent and excess shall be discharged into local water body after achieving above standards. The project authorities shall take proactive initiatives for use of the excess water for agricultural purposes in the vicinity of mine.

(v) Sewage Effluent Treatment: The applicant shall provide complete and effective treatment system as is warranted with reference to effluent quality and quantity and maintain the same continuously so as to achieve the quality of treated effluent to the following standards:

Shr. N. K. Prashad - Sub

Environment - Dept HLOC.
for n. a.



- (1) Suspended Solids Not to exceed 100 mg/l.
 (2) BOD 3 days 27° C. Not to exceed 100 mg/l.
- (vi) Sewage Effluent Disposal: The treated domestic effluent shall be used on land for gardening/irrigation purpose only.

(vii) Non-Hazardous Solid Wastes:

Type of waste	Quantity	Treatment	Disposal
The waste i.e. Over burden shall be disposed of by means of backfilling or Reclamation of the land.			

(viii) Other conditions: The industry shall monitor effluent quality regularly.

4. The applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1977 (to be referred as 'Water Act') and Amended Rules, 2003 there under.

water consumption for the following categories is as under:

Sr. No.	Consumption	Quantity
1	Domestic	2.0 CMD
2	Mine Discharge	30.0 CMD
3	Spraying/Workshop dust Suppression	171.0 CMD
4	Sand stowing	--- CMD
5	Other Uses like gardening Etc	CMD

5. CONDITIONS UNDER AIR ACT:

- (i) The applicant shall install a comprehensive control system consisting of control equipments as is warranted with reference to generation of emission and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

(A) Standards for Ambient Air Pollutants:

- (i) Suspended Particulate Matter (SPM): Not to exceed 500 µg/m³
 (ii) Respirable Particulate Matter (RSPM): Not to exceed 250 µg/m³
 [S 25 less than 8 micrometer]
 (iii) Sulphur Dioxide (SO₂): Not to exceed 120 µg/m³
 (iv) Oxides of Nitrogen (NOx): Not to exceed 120 µg/m³

(B) Standards for Emissions of Air Pollutants:

- (i) TSPM: Not to exceed 150 mg/Nm³
 (ii) SO₂: Not to exceed 10 Kg/Day

(C) Control Equipment:

- (i) Coal handling plant will be provided with Dust Collector and Automatic Water Sprinkler.
 (ii) Scientific spraying of water on all working area, dump area, stock piles with the help of appropriate dust suppression system.
 (iii) Coal shall be properly covered during transportation.
 (iv) The applicant shall carry out the plantation along road side, around dumps or Compulsory a forestation as per proposal approved by Forest Department. The tree plantation programme shall be taken up well in advance of the actual mining activity, so that green belt of sufficient width and height is developed between mining area/road and surrounding environment.
 (v) Black topped major roads shall be provided and well maintained to prevent dust formation.
 (vi) Overloading of dumpers shall be avoided to prevent spillages.
 (vii) Correct type and quantity of explosives shall be used to avoid excess dust formation and vibration in the surrounding area.
 (viii) The slope of the over burden shall have slope not more than 20 degree to the horizontal. The over burden shall be properly covered by vegetation for Stabilization.
 (ix) Coal transportation shall be done by installing conveyors wherever possible & mechanically covered closed trucks shall be used for transportation.



- (ii) The applicant shall observe the following fuel pattern:
- | Sr.No. | Type of Fuel | Quantity |
|--------|--------------|----------|
| --- | --- | --- |

- (iii) The applicant shall erect the chimney(s) of the following specifications:
- | Sr.No. | Chimney attached to | Height in Mtrs. |
|--------|---------------------|-----------------|
| --- | --- | --- |

- (vii) The applicant shall provide minimum three ambient air quality monitoring stations within mining area which should be monitored for: SPM , $RSPM$, SO_2 , NO_x , HC , CO etc. The Annual Arithmetic Mean of minimum 134 measurements in a year taken twice a week 24 hours at uniform intervals shall conform to the National Ambient Air Quality Standards prescribed under Air (Prevention and Control of Pollution) Act, 1986 and Environmental (Protection) Act, 1986. The records of results of monitoring shall be maintained and shall be made available for inspection to the officers of the Board.

- (v) The applicant shall take adequate measures for control of noise emanating from its own sources as follows:

Sr.No.	Location	Permissible Norms (in dB(A))	Desired minimum thickness of Green Belt
1	Along road	65 (Commercial Area)	20
2	in Colonies	55 (Residential Area)	20
3	Near Open cast Mines	75 (Industrial Area)	40 (40)
4	Near CHPs	75	30
5	Near Shaft	75	20
6	Near Mine exhaust fan	75	50

(* The Open Cast Mine needs to be surrounded by a green belt of sufficient width as per the guidelines of Design Institute for a Subclass of Coalfield Ltd. if the residential colonies are very close)

- (vi) Other Conditions:

- Whenever due to any accident or other unforeseen pollution even such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, District Pollution Control Inspectorate of Factories and Coal Board. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
- If Coal Washeries are installed, then following conditions of the Ministry of Environment & Forests, Government of India's Notification No.Q.15017/13/9 CPW, dated 27th January 1999 strictly.

6. CONDITIONS UNDER HW (M.H. & TM) RULES, 2008:

- (i) The applicant shall handle hazardous wastes as specified below:

Sr. No.	Item No. as per Sch-I	Type of Waste	Quantity	Disposal
1	34.3	Chemical sludge from waste water treatment	1.0 MT/Month	
2	5.2	Wastefines (containing C) (Used oil, Grease, Carbon waste contaminated with oil)	100 kg/Month	CW-TSDF Bhubaneswar
3	5.1	Used/spent oil	1.73 Kg/Month	CBCB, SECB Bhubaneswar



7. General conditions:

- (i) The applicant shall bring minimum 22% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 31st September every year on available open plot/area, no of trees surviving as on 31st March of the year and no of trees planted by September end.
- (ii) The applicant shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the applicant and operate the same in case of power failure to maintain compliance with the terms and conditions of the consent. In the absence of same, the applicant shall stop, reduce or otherwise, control production to abide by terms & conditions of this consent regarding pollution levels.
- (iii) The applicant shall make an application for renewal of the consent at least 60 days before the date of the expiry of the consent. The applicant shall not change or alter quantity, quality, the rate of discharge, temperature or the mode of the effluent/ emissions or hazardous wastes or control equipments provided for without previous written permission of the Board.
- (iv) The firm shall submit MCEB, the Environmental Statement Report for the financial year ending 31st March in the prescribed Form-V as per the provisions of rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992 before 30th September every year.
- (v) The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plant and effluent control system. A register showing consumption of energy gas used in treatment shall be maintained. The applicant shall also submit a comparative statement of designed power and chemical consumption, shall also actual power and chemical consumption along with Environmental statement.
- (vi) Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers down stream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system. No storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
- (vii) The applicant shall provide facility of collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous wastes to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.
- (xi) The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clear and safe environment in and around the factory premises.
- (x) The applicant shall maintain good house keeping and take adequate measures to control of pollution from all sources so as not to cause nuisance to surrounding area / inhabitants. The project authorities shall work out the feasibility of deploying mechanically closed trucks for transportation of coal.
8. The project authorities shall submit an action plan for use of closed coal conveyor belt system in place of truck transportation.
9. The project authorities shall identify critical road sections where the dust generated from coal transportation is likely to affect human population and agriculture and take up works of making those roads paved and clear so as to reduce dust emissions in 3 months.
10. The project authorities shall install well designed water sprinkling arrangements including fixed and mobile sprayers for dust suppression. The augmentation/ up gradation proposal for dust suppression system shall be submitted in 3 months.
11. The project authorities shall give suitable training to all level management personnel and truck drivers on environmental protection and pollution control.



12. The project amount is Rs. 1000/- per month for the period of 12 months.
13. This Board passes the order for the project amount of Rs. 1000/- per month and the same shall be paid to the project.
14. This is issued pursuant to the decision of the Board of Directors and is valid for the period of 12 months from the date of the order.
15. Industry shall implement and hand over the project amount of Rs. 1000/- per month to the project.
16. Industry shall implement and hand over the project amount of Rs. 1000/- per month to the project.
17. Total project amount is Rs. 12000/- for the period of 12 months.



To,
 M/s Western Coal Fields Ltd.
 Hindustan Lalpathy Open Cast Project
 Chhatrapur Area, Jharkhand.

Copy to:

- 1) Regional Officer, Jharkhand, Ranchi.
- 2) Chief Engineer, Jharkhand, Ranchi.
- 3) Chief Accounts Officer, Jharkhand, Ranchi.
- 4) Cess Branch, Jharkhand, Ranchi.

Received Consent fee of

Amount Rs. 1000/-

4) Cess Branch, Jharkhand, Ranchi.

HLOCP VISIT DT: 13.5.2014

NO.1-11015/2005(A.HM)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan,
C.O.O. Complex, Lodi Road,
New Delhi - 110013

Dated: 14th July 2006

To
Head of Department Env./CE(CivU),
Environment Department,
M/s Western Coalfields Ltd.,
Coal Estate, Civil Lines,
NAQPUR - 440001.

Sub: Hindustan Lalpeth Opencast Coal Mine Expansion Project (from 0.59 MTPA to 1 MTPA) of M/s Western Coalfields Ltd. (WCL), located near village Mana, Tehsil & District Chandrapur, Maharashtra - environmental clearance - reg.

Sir,

This has reference to Ministry of Coal's letter of March 2003 and letter of M/s Coal India Ltd. dated 03.03.2005 forwarding your application and letters of M/s Coal India Ltd. dated 16.01.2006 and 28.02.2006 and your subsequent letter dated 05.04.2006 on the above-mentioned subject. The Ministry of Environment & Forests has considered your application. It has been noted that the application is for environmental clearance for expansion in production in the existing Hindustan Lalpeth Opencast Coalmine Project. The total lease area is 311.66 ha. Of the total lease area, 100.83 ha is agricultural land, 72.22 ha is forestland and 138.61 ha is Govt. land. Forestry clearance has been obtained on 08.05.2001. Of the total lease area, area for excavation is 77.21 ha, 118.19 ha is for QB dumps and 116.26 ha is undisturbed area. There are no National Parks, Wildlife Sanctuary, Biosphere Reserves found in the 10 km buffer zone. The area is drained by Kori River which is a tributary of the River Wardha and flows from north to south on the western part of the area. The project does not involve modification of the natural drainage. However an embankment is constructed along the river side. Site clearance was obtained on 20.06.2005. Project involves R&R of one village - Sidharth Nagar. R&R has been already completed. Mining is opencast by mechanised method. Expansion of the rated capacity of the mine is from 0.59 million tonnes per annum (MTPA) to 1 MTPA of coal production. Mineral transportation of 1833 TPD of coal is by road by about 450 trucks per day. Ultimate working depth of the mine is 100m below ground level (bgl). Water table is in the range of 2.2 - 13.24 m bgl in the buffer zone. Mining will intersect water table. Average water requirement is 200 m³/d, which is met from other water bodies. An estimated 0.37 Mm³ of QB will be generated every month over the life of mine which would be dumped in one external dump and by backfilling. Public Hearing was held on 20.07.2005. NOC has been obtained on 30.04.2005. Life of the mine at the rated capacity is 3 years. The project has been approved by M/s WCL on 04.05.2005. The capital cost of the project is Rs. 1989.11 lakhs.

2. The Ministry of Environment & forests hereby accords environmental clearance for the above-mentioned Hindustan Lalpeth Opencast Coal Mine Project of M/s WCL for production of coal of 1 MTPA rated capacity in a lease area of 311.66 ha under the provisions of the Environmental Impact Assessment Notification, 1994 and subsequent amendments thereto subject to the compliance of the terms and conditions mentioned below:

A. Specific Conditions

- (i) All the conditions stipulated by BPCB in their NOC shall be effectively implemented

- (ii) The embankment constructed along the boundary with the River Earis shall be of suitable dimensions and stabilised with plantation to withstand the peak water flow and prevent mine inundation.
- (iii) OB should be stacked at earmarked external OB dumpsite(s) within ML area consisting of benches of 10 to 15 m each. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.
- (iv) Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilised for watering the mine area, roads, green belt development, etc. The drains should be regularly desilted and maintained properly.
Garland drains (size, gradient and length) and sump capacity should 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 should also provided adequate retention period to allow proper settling of silt material.
- (v) Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.
- (vi) Crushers at the CHP should be operated with high efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.
- (vii) Drills should be wet operated.
- (viii) Controlled blasting should 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 should be implemented.
- (ix) A progressive afforestation plan shall be implemented which includes reclaimed external OB dump (118 ha), backfilled area (12ha) along ML boundary (5 ha), along roads and infrastructure (5.15 ha), embankment, vacant land (5 ha) and in area in township located outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (x) Of the excavated area of 77.21 ha, an area of 18 ha shall be backfilled and reclaimed with plantation (12 ha) and the balance 47.21 ha which is being converted into a water reservoir and peripheral fencing should be constructed. The upper benches of the void shall be gently sloped and shall be stabilised by plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.
- (xi) The company shall obtain approval of CGWA/CGWB Regional Office for use of groundwater if any, for mining operations.
- (xii) Regular monitoring of groundwater level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.

The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.

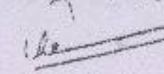
- (xiii) Sewage treatment plant should be installed in the existing colony. ETP should also be provided for workshop and CHP wastewater.
- (xiv) Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.
- (xv) Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its Regional office at Bhopal.
- (xvi) A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests within 6 months for approval.
- (xvii) Consent to Operate shall be obtained before expanding mining operations.

B. General Conditions

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

- (i) No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.
- (ii) Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO₂ and NO_x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.
- (iv) Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.
- (v) Data on ambient air quality (SPM, RPM, SO₂ and NO_x) should 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.
- (vi) Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of H&MM, etc should be provided with ear plugs/muffs.
- (vii) Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (F) dated 19th May 1993 and 31st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.

- (viii) Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.
- (ix) Environmental laboratory should 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 should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.
- (xi) A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.
- (xii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should 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 clearance letter shall 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 should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's Office for 30 days.
- (xvi) The Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within seven days of the 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>.
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.


(Dr. T. Chandini)
Additional Director

Copy to:

1. Secretary, Ministry of Coal, New Delhi.
2. Secretary, Department of Environment, Government of Maharashtra, 15th Floor, New Admn. Bldg., Madam Cama Road, MUMBAI - 400032.
3. Chief Conservator of Forests, Regional office (EZ), Ministry of Environment & Forests, E-2/240 Arear Colony, Bhopal - 462016.
4. Chairman, Maharashtra State Pollution Control Board, Kalagatru Point, 3rd & 4th Floors, Sion, Matunga Scheme Road No. 8, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai - 400002.
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. Shri M.K. Shukla, OGM, Coal India Limited, SCOPE Miner, Core-1, 4th Floor, Vikas Marg, Laxminagar, New Delhi.
8. District Collector, Chandrapur, Government of Maharashtra.
9. EI Division, Ministry of Environment & Forests, New Delhi.
10. Monitoring File 10. Guard File 11. Record File