

# Six Monthly Compliance Report of Environmental Clearance

JAMUNIYA UNDERGROUND MINE

[0.828 MTPA in Area of 376.94 HA]

EC No.: J-11015/67/2009-IA.II(M), Date-11.10.2019



Western Coalfields Limited

Pench Area

Po: Parasia, Chhindwara (MP)- 480441

**PERIOD: 01.04.2022 to 30.09.2022**

**Compliance status of Environment Clearance obtained vide No. J-11015/67/2009-IA.II (M) dated 31.12.2012 and amended vide No. J-11015/67/2009-IA.II (M) dated 11.10.2019**

S.N.	Conditions	Compliances
1.	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structures, roads, and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	At present drivage of inclines is being done. When depillaring starts regular monitoring of subsidence on surface will be done and corrective measures will also be taken for plugging the cracks.
2.	If subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	Noted.
3.	Mining shall be carried out as per statute at a safe distance from the river / nallah flowing adjacent to the lease boundary.	A safe distance from nearby river / nallah flowing adjacent to the lease boundary will be maintained while conducting the mining operations.
4.	High root density tree species shall be selected and planted over areas likely to be affected by subsidence.	Adequate plantation will be done.
5.	Coal extraction shall be optimized in areas where agricultural production is continuing. Some pillars shall be left below the agricultural land. No depillaring & coal extraction should be carried out below habitation, H.T Lines & beneath road, water bodies.	Noted.
6.	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	At present drivage of inclines is being done. When depillaring starts regular monitoring of subsidence on surface will be done and corrective measures will also be taken for plugging the cracks.
7.	Three-tier plantation should be developed 2 Km stretch of road from the mine using native species.	Adequate plantation will be done along the road from the mine.
8.	Garland drain (size, gradient & length around the safety areas such as mineshaft and low-lying areas and sump capacity should be designed keeping 50% safety margin discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material.	Noted.
9.	Water Sprinkling system shall be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, transfer points etc. Major approach roads shall be black topped and properly maintained	Noted. Presently only drivage of inclines is going on.
10.	Transportation of coal from the mine to railway siding proposed are distance of 15 Km at Parasia railway siding (existing railway	The distance of existing railway siding namely B.G. Siding is approximately 34 KM from the mine. Coal transportation will be done by trucks

	siding of WCL should be by 20 T mechanically covered trucks).	properly covered by tarpaulin.
11.	A progressive Afforestation plan shall be prepared and implemented over the mine lease area acquired and shall include area under green belt development, areas along roads, infrastructure, along ML boundary, township area etc. by planting species in consultation with the local DFO / Agriculture Department.	Noted.
12.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers. The monitoring for water levels should be done at least 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 MOEF & CGWB Regional Office quarterly within one month of monitoring.	Quarterly Monitoring of ground water level in villages will be done by CMPDIL once mine starts.
13.	Acid water Treatment Plant, volume of water to be treated and disposal of brine should be provided.	Adequate measures will be taken if the water emanating from the mine is found acidic.
14.	Mine discharge water outside the ML shall be monitored, particularly for TDS and treated to conform to prescribed levels before discharge into the natural environment.	Noted.
15.	The Company shall put 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 the mine.	Adequate artificial groundwater recharge measures will be taken for augmentation of groundwater resource. A rainwater ground recharge system is already installed.
16.	Besides carrying out regular periodic health check up of the workers, 10% of the workers identified from work force engaged in active mining operation shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad with in a period of two years and the results reported to this Ministry and to DGMS.	Periodic health check up for all workman will be carried out once in every 5 years and for workers above 45 years of age, the same is carried out once in 2 ½ years at Barkuhi Hospital. Further measures suggested to curb occupational diseases and hearing impairment, if any, will be followed.
17.	The user agency shall contribute on proportionate basis, the amount required for implementation of the Habitat Restoration of Pench-Satpura Tiger corridor plan to be prepared by the NTCA for rejuvenation and restocking of the tiger population the mitigative measures to eliminate / minimize the adverse impact of the transportation or coal to be extracted from the Pench-Kanhan coal	Noted.

	fields on the viable corridor.	
18.	The mining in the existing mines would be phased out after the expiry of the current mining lease and after reclamation of mined over area. The operating mines may be analysed and monitored for compliance of conditions, having bearing with movement of wildlife until such time they are closed / phased out.	The operating mines will be analysed and monitored for compliance of conditions, having bearing with movement of wildlife until such time they are closed / phased out.
19.	Project specific CSR for an amount of Rs 5 / Tonne of coal production should be provided for the activities under CSR undertaken for the neighboring villages shall be for not less than Rs 10 per tone of coal and the progress made there on shall be uploaded on the company annually on the company website. Monitoring of the impacts of activities under CSR shall be carried out periodically.	CSR will be as per company guidelines.
20.	Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Final Mine closure plan will be prepared by C.M.P.D.I.L for final approval from competent authority.
21.	<b>Corporate Environment Responsibility:</b> <ol style="list-style-type: none"> <li>The Company shall have a well laid down Environment policy approved by the board of Directors.</li> <li>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.</li> <li>The hierarchical system or Administrative order of the company to deal with environment issue and for ensuring compliance with the environment clearance condition shall be furnished.</li> <li>To have proper checks and balance, the company shall have a well laid down system of reporting of non-compliances/violence of environment norms to the Board of Directors of the</li> </ol>	<ol style="list-style-type: none"> <li>The company WCL has laid down Environment policy approved by the Board of directors.</li> <li>The environment policy of the company inherits standard operating process/procedures.</li> <li>A separated Environment management cell exists at project level, Area and company HQs levels. At projects level the cell is headed by sub area Manager comprises of sub area Civil Engineer and Nodal Officer of the environments of the project. At area level the cell is headed by General Manager (operation) assisted by Nodal Officer (environment). At company HQ Level the cell is headed by GM Environment and assisted by multi disciplinary team.</li> <li>The company WCL has laid down system of reporting of non-compliance/violence of environment norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</li> </ol>

	company and/or shareholders or stakeholders at large.	
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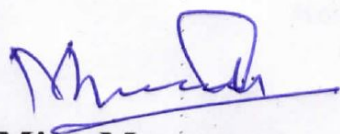
## B. GENERAL CONDITIONS

S.N o.	CONDITIONS	COMPLIANCES
1.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Noted.
2.	No change in the calendar plan including excavation quantum of mineral coal and waste should be made.	Noted.
3.	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO <sub>2</sub> and NO <sub>x</sub> monitoring. Location of the station should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	Air quality monitoring done by CMPDIL as per the guidelines.
4.	Data on ambient air quality (SPM, RPM, SO <sub>2</sub> and NO <sub>x</sub> ) 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. Random verification of samples through analysis from independent laboratories recognized under the EP Rule, 1986 shall be furnished as part of the compliance report.	A six-monthly report has been submitted every six month which also contains the monitoring data.
5.	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 HEMM, etc. should be provided with earplugs/muffs.	Adequate measures will be taken to control noise level below 85 dBA. Workers engaged in blasting and drilling operations, operation of HEMM, etc. will be provided with earplugs/muffs. However, at present only drivage of inclines is going on.
6.	Industrial waste water (workshop and waste water from mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st Dec. 1993 or as amended from time to time, before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	There will not be any such generation.
7.	Vehicular emission should be kept under control and regularly monitored Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	Vehicles engaged in coal mine operation and transportation will be monitored for valid PUC Certificate. Vehicles used for transporting the mineral will be covered with tarpaulins and optimally loaded. Further coal transportation roads have been blacktopped to

		minimize air pollution and are maintained regularly.
8.	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 analyzed through a laboratory recognized under EP Rules 1986.	Monitoring of environmental quality parameters will be carried out by CMPDIL, Nagpur. Environmental laboratory has been established at CMPDIL, RI-IV Nagpur which is having adequate number and type of pollution monitoring and analysis equipments.
9.	Monitoring of outlet points should be carried out and records of same should be maintained and submitted to the Regional Office of the MOEF as part of the Compliance Report.	Monitoring of outlet points will be carried out and records of same will be maintained and submitted to the Regional Office of the MOEF as part of the Compliance Report.
10.	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 program of workers should be undertaken periodically to observe any contractions due to exposure to coal dust and take corrective measures if needed.	All the workers engaged in dusty areas will be provided with dust masks. They will be given training in Environment as per Vocational Training rules & mines Act 1952 at VTC Pench Area, occupational Health survey program of workers will be taken as per Mines Rules by way of periodical medical Examination of every worker.
11.	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior Executive who will report directly to the Head of the Company.	An Environmental Management Cell is in existence at project level Area level and at company HQs. The cell at project level is headed by SAM with Environmental Nodal officer/ Survey Officer. -The Area Cell is headed by GM & assisted by Area Nodal Officer. -Company HQs Cell is headed by GM (Env.) and duly assisted by a team of qualified personnel.
12.	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to Ministry and the Regional Officer at Bhopal.	A separate account will be provided for the funds earmarked for environment protection measures and will being utilized and recovered for the said purpose only. Year wise expenditure will be indicated in six monthly reports to MOEF Delhi & Bhopal.
13.	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 the <a href="http://envfornic.in">http://envfornic.in</a>	Complied with.
14.	A copy of the environmental clearance letter shall be marked to concerned Panchayat/Zila	A copy of environment clearance letter is forwarded to village Panchayat. A copy of the

	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 the company's website.	clearance letter has also been displayed on the company's website.
15.	A copy of the clearance letter shall be displayed on the website of the concerned SPCB. The EC letter shall also be displayed at the Regional Office. District Industry Centre and collector's Office / Tehsildars Office for 30 days.	Complied with.
16.	The clearance letter shall be uploaded on the company website. The compliance status of the stipulated EC 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 the public domain. The monitoring data of environment quality parameters (air, water, noise and soil) and critical pollutions such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> (ambient and stack if any) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mines office and in corporate office and on the company's website.	Complied with.
17.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Office of the MOEF, the respective Zonal Offices of CPCB and the SPCB.	Six monthly reports depicting the status of compliance of the stipulated environmental clearance conditions is submitted both in hard copy and in e-mail to the respective Regional Office of the MOEF, the respective Zonal Offices of CPCB and the SPCB.
18.	The Regional office of the Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full co-operation to the officer (S) of the Regional Office of the MOEF, the respective Zonal Offices of CPCB and the SPCB.	Full co-operation will be given to the officer (S) of the Regional Office of the MOEF, the respective Zonal Offices of CPCB and the SPCB for monitoring compliance of the stipulated conditions.
19.	The environmental statement for each financial year ending 31 <sup>st</sup> March in FORM-V is mandated to be submitted by the project proponent to the concerned SPCB as be prescribed under the EPA 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 by e-mail.	The environmental statement for each financial year ending 31 <sup>st</sup> March in FORM-V will be submitted to the MPPCB and will also be uploaded on the company's website along with the status of compliance of EC conditions and will be sent to the respective Regional Offices of the MOEF&CC.
3.0	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of	Noted

	environment protection.	
4.0	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.	Noted
5.0	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.	Noted



**Mine Manager  
Jamuniya UG Mine**



**Sub-Area Manager  
Jamuniya UG Mine  
JAM-DHN Sub-Area**