

Six Monthly Compliance Report of Environmental Clearance

CHHINDA OPENCAST MINE

[0.65 MTPA in Area of 106.68 HA]

EC No.: J-11015/119/2011-IA.II(M), Date-15.01.2014



Western Coalfields Limited
Pench Area

Po: Parasia, Chhindwara (MP)- 480441

PERIOD: 01.10.2022 to 31.03.2023

Compliance report of Environment Clearance Conditions vide no. J-11015/119/2011-IA.II (M) Dt. 15 January, 2014

	SPECIFIC CONDITIONS	
Sr. No.	CONDITION	Compliance
1	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Noted.
2	The proponent shall abide by all the commitments and recommendations made in the EIA / EMP report.	Noted.
3	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	At present there is no mining activity. Once the mining operations starts, the same will be complied.
5	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Supervisory will be provided in each shift.
6	People working in the core area should periodically be tested for the lung burden cost on account of working in the coal mine area.	PME is being done at Central Hospital, Barkuhi. 1/6 th of work force has undergone PME each year.
7	The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.	Plantation has been around the mining area on external dump over an area of 16.00 Ha.
8	Dimension of retaining wall at the toe of dumps and OB benches within the mine to check run off and siltation should be based on the rainfall data.	Adequate retaining wall has been constructed.
9	Desiltation of existing pond in the affected village be carried out.	Not applicable.
10	Excavation of new pond if needed be carried out.	Not required.
11	Roof-top rain water harvesting in selected buildings in consultation with Village Panchayat like Village School/Panchayat Bhawan be also be carried out.	Panchayat officials have been communicated in this regard & they responded that Govt. has taken steps for construction of Rain Water Harvesting.
12	Permission form the competent authority should be obtained for drawl of water form Pench River.	No water has been drawl from Pench River. Hence, Not required.
13	Regular monitoring of impact of noise and air pollution on wildlife and human being be carried out and report be submitted to the SPCB.	Fortnightly monitoring of Air and Noise is being regularly done by CMPDIL, RI-IV, Nagpur. The reports are submitted to SPCB on six-monthly basis.
14	Regular monitoring of wells for water level be carried out quarterly and for ground water quality.	Regular quarterly monitoring of nearby wells w.r.t their water level and water quality is being done by Third Party. The reports are submitted regularly.
15	As open cast mine is worked on existing underground workings, necessary safety arrangement be made for safety of men m/c	Noted.

16	Th committee suggested that mitigative measures for reducing fugitive dust emissions should be taken up as WCL Colony is at the distance of 100m and chhinda village is 300m away from Chhinda OCP mine site.	Plantation between colony and mine has been done. Further, regular spray of mine water for dust suppression has been carried out. Moreover, additional mitigative measures shall be taken up as the mining operations resume.
17	The Committee desired that a 200m wide green belt should be preferably developed depending on the availability of land in non-mineralized area as large number of structures, road, and settlement are existing between the mine and Chhinda village.	Noted.
18	The committee also desired that a plan for repairing/plugging the cracks found in houses should be drawn up and implemented.	The repairing/ plugging of existing cracks found in houses has been taken care off by civil department. However, the mine has been discontinued since 17.11.2016.
19	The committee also desired that a barrier consisting of 3-tier green belt and in particular, thickets of bamboo plantations should be developed between that mine and habitations.	Bamboo plantation was not possible because of shortage of space between habitation and mines.
20	The committee desired that in case the villagers are not in favour of planting bamboo near their agriculture fields, other native species could be planted.	About 3,000 nos. of plants of native species have been planted in the village and nearby areas.
21	The committee observed that the transportation of coal from the mine face to surface is by 10-T Trucks, should be covered. All the trucks used for coal transportation outside the mine should be mechanically covered. The transportation of coal in the pit would be by Dumpers, from surface to Siding by /tippers; from siding to loading would be by Pay Loaders.	The coal transportation will be done by tarpaulin covered trucks.
22	The production shall be within the approved Mining Lease area.	Noted.
23	The OB shall be completely re-handled at the end of the mining.	The OB of the Chhinda OC mine will be accommodated in the void created by New Sethia OCM. Hence, total OB will be back filled.
24	Final mine void depth will not be more than 40m. The void area will be converted into waterbody. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.	Maximum void depth of 40m is complied and the void area has accumulated water of about 300 million gallon.
25	Garland drains be provided.	Garland drains around the mine has been provided.
26	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Embankment Provided.
27	The land after mining shall be brought back for agriculture purpose.	Noted.

28	Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored and mitigation measures taken.	No mine water is being discharged into any other lagoons.
29	The CSR cost should be Rs 5 per Tonnes of Coal produced which should be adjusted as per the annual inflation.	Noted.
30	The recommendations made in the MOEF Report for mines in the Pench-Kanhan Coalfields should be implemented.	Noted.
31	The mining area should be grounded by green belt having thick canopy of the tree cover.	Plantation has been around the mining area on external dump over an area of 16.00 Ha.
32	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.	Embankment of sufficient width and strength along with thick plantation has been provided against Pench River.
33	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.	Massive plantation has been done between the river and the project. No OB has been overflow into Pench River and agriculture fields.
34	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.	Present there is no mining activity and the existing external dumps have been covered with thick plantation for dump stability. Compliance status has been submitted to MoEF on six-monthly basis.
35	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.	Catch drains have been provided around the dumps and OB dump has also covered with thick vegetation cover. Further, garland drain will be desilted once the mining activity will start.
36	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag tilters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	No CHP at the mine.
37	Drills shall be wet operated.	Noted.

38	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.	At present the mine is discontinued since 17.11.2016.
39	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The proponent would need to repair the cracks in the houses if it occurred on account of blasting. The mitigative measures for control of ground vibrations and to arrest the flying rocks and boulders shall be implemented.	At present the mine is discontinued since 17.11.2016.
40	A Progressive afforestation plan shall be implemented covering an area of 106.68 ha at the end of mining, which includes reclaimed external OB dump 16.80 ha, excavation area (52.20 ha), along ML boundary, along roads and infrastructure (1.92 ha), danger zone rationalization (21.7 ha) and green belt (14 ha) and 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.	Noted.
41	An estimated 78.38 Mm ³ of OB will be generated during the entire life of the mine. Out of which 7.28 Mm ³ of OB will be dumped in two external OB Dumps in an earmarked area covering 16.80 ha of land. 20.10 Mm ³ of OB will be dumped in embankment covering an area of 15.00 ha. The maximum height of external OB dump for hard OB will not exceed 90 m and that for soft OB shall not exceed 60 m. The maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self- sustaining and compliance status shall be submitted to MOEF and its Regional Office on yearly basis.	Noted.
42	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Noted.
43	Compensatory Ecological & Restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Noted.
44	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	Noted. Balance OB will be accommodated internally.

45	No groundwater shall be used for mining operations.	Noted.
46	Of the total quarry area of 52.20 ha, the backfilled quarry area of 15 ha shall be reclaimed with plantation and a void of 37.20 ha at a depth of 40 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized 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.	Around 300 million gallon water has been accumulated in the void so created.
47	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.	Regular quarterly monitoring of nearby wells w.r.t their water level and water quality is being done by Third Party. The reports are submitted regularly.
48	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.	Noted.
49	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	A STP of 0.14 MLD capacity has been constructed at Shivpuri Colony. No workshop and CHP at the mine.
50	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 specialized agency/institution within the District/State and the results reported to this Ministry and to DGMS.	Noted, Presently there is no mining activity.
51	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.	Noted.

52	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 I: 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 concerned Regional office.	Noted.
53	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests within 6 months of grant of Environmental Clearance.	A Mine Closure Plan has been approved by Company Board. The Escrow a/c no. is 08973161002362.
54	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.	CSR activities are being carried out on the basis of demands raised from Panchayats of the local villages and approved by HQ.
55	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.	Noted.
56	<p>Corporate Environment Responsibility:</p> <ol style="list-style-type: none"> 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. <p>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.</p>	<p>A. Company have a approved Environment Policy.</p> <p>B. Noted.</p> <p>C. 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 and assisted by the manager of the mine. -The Area Cell is headed by AGM & assisted by Area Nodal Officer. -Company HQs Cell is headed by GM (Env.) and duly assisted by a team of qualified personnel.</p>
	General Conditions	
1	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	Noted.

2	No change in the calendar plan of production for quantum of mineral coal shall be made.	Noted.
3	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM10, PM2.5 SO2 and NOx 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.	Four ambient air quality station are being established and regular fortnightly monitoring is being done by CMPDIL, RI-IV, Nagpur.
4	Data on ambient air quality (PM10, PM2.5 SO2 and NOx) 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.	Regular Fortnightly monitoring data has been submitted to Regional Office MoEF&CC, RO MPPCB, CPCB on six monthly basis.
5	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.	There is no mining activities at present.
6	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.	There is no mining activities at present. Moreover, there is no workshop.
7	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	There is no mining activities at present.
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 analysed through a laboratory recognised under EPA Rules, 1986.	Environmental quality parameters for Ambient Air, Mine water and Noise levels are being monitored by CMPDIL, RI-IV, Nagpur. CMPDIL is a NABL accredited lab.
9	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.	There is no mining activities at present.
10	Occupational health surveillance programme of	There is no mining activities at present.

	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.	
11	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.	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 and assisted by the manager of the mine. -The Area Cell is headed by AGM & 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 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.	Funds earmarked for environmental protection measures are being kept in separate account. Year-wise expenditure is reported in the six-monthly compliance reports.
13	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 .	Public advertisement in English and Vernacular language was done as follows: 1. The Hitvada (Nagpur) dated 25.01.2014 – in English. 2. Danik Bhaskar (Chhindwara) dated 25.01.2014 – in hindi
14	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.	Complied.
15	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.	To be done by SPCB.

16	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, PM2.5 SO2 and NOx (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.	Complied.
17	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 Offices of CPCB and the SPCB.	Complied.
18	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.	Noted.
19	The Environmental statement for each financial year ending 31 March in Form-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.	Complied.
6.0	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Noted.
7.0	The proponent shall establish an Environment Audit Cell, which should be responsible and accountable to ensure compliance stipulated in the EC.	Noted.
8.0	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.	Noted.
9.0	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted.

10.0	Failure to comply with any of the condition mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act, 1986.	Noted.
11.0	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.