

SIX MONTHLY COMPLIANCE REPORT OF CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE

for

OCTOBER'2022 – MARCH'2023

SHIVANI OC COAL MINE PROJECT

(Peak Production Capacity 1.4375 MTPA)

(EC Letter No.:J-11015/21/2012-IA.II (M) dated 24th December, 2014)



WESTERN COALFIELDS LIMITED

(A Mini Ratna-Cat.I, Govt. of India Undertaking, Subsidiary of Coal India Ltd.)

Office of the Sub Area Manager, Ghonsa Sub Area, Post- Rasa, Teh.-
Wani, Distt.- Yavatmal, Maharashtra -445304

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

Name of the Project: SHIVANI OC COAL MINE PROJECT (Peak Production Capacity 1.4375 MTPA)

EC Letter No.: MoEF&CC vide EC Letter No.: J-11015/21/2012-IA.II(M) dated 24th December, 2014 (Peak Production Capacity 1.4375 MTPA)

Period of Status Report: For the period of **October'2022 to March'2023.**

Sr. No	Specific Conditions	Compliance Status
1	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Mine is not opened, will be complied.
2	The validity of the EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.	Agreed. Will be complied.
3	The entire strip of 150 m between mine lease and river bank should be planted with the dense plantation.	Will be complied.
4	Native plant species shall be planted.	Will be complied.
5	There shall not be any void left after the end of mining.	Will be complied.
6	The land shall be brought back for agriculture purpose at the end of mining.	Will be complied.
7	The OB dump shall be covered with grasses till it is re-handled.	Will be complied.
8	Till the railway siding comes up for silo loading a proposed, the loading of coal shall be by pay loaders.	Will be complied.
9	Rain water harvesting and other facilities should be created for ground water recharge.	Will be complied.
10	Surface run off must pass through the settling tank before releasing into water body.	Will be complied.
11	Coal transportation in pit by dumpers, surface to siding by dumpers and loading at siding by pay loaders.	Will be complied.
12	The production shall be within the same mining lease area.	Will be complied.
13	The depth of the void shall be 40 m from the ground level and should be adequate for fishery purpose.	Will be complied.
14	The OB shall be completely re-	Will be complied.

	handled at the end of the mining. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil for agriculture purposes.	
15	Garland drains be provided.	Will be complied.
16	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	Will be complied.
17	The CSR cost should be Rs 5 per tonnes of coal produced which should be adjusted as per the annual inflation.	Will be complied as per company rules.
18	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	Will be complied.
19	Dust mask to be provided to everyone working in the mining area.	Will be complied.
20	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Will be complied.
21	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.	Will be complied.
22	The mining area should be surrounded by green belt having thick closed thick canopy of the tree cover.	Will be complied.
23	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.	Will be complied.
24	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.	Will be complied.
25	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 dumpsite shall continue until the vegetation becomes self-sustaining.	Will be complied after opening of the mine.

	Compliance status shall be submitted to the ministry of Environment, Forests & climate change and its concerned regional office on yearly basis.	
26	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.	Will be complied after opening of the mine.
27	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.	Will be complied after opening of the mine.
28	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.	Will be complied after opening of the mine.
29	Drills shall be wet operated.	Will be complied after opening of the mine.
30	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.	Will be complied after opening of the mine.
31	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.	Will be complied after opening of the mine.
32	A progressive afforestation plan shall	Will be complied after opening of the mine.

	be implemented covering an area of 374.85 Ha at the end of mining, which includes reclaimed external OB dump area (201 ha), internal OB dump area (24ha), along roads and Green belt (374.85 ha) and in township located outside the lease by planting native species in consultation with the local DSO/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.	
33	An estimated total 171.32 Mm3 of OB will be generated during the entire life of the mine. Out of which 119.11 Mm3 of OB will be dumped in two external OB dumps an earmarked area covering 201 ha of land with height of 90 m 52.21 Mm3 of will be one internal OB dump in covering an area of 108 ha with height of 40m. the maximum height of external OB dump for hard OB will not exceed 90m. 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.	Will be complied after opening of the mine.
34	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	Will be complied after opening of the mine.
35	Compensatory Ecological & restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	Will be complied.
36	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	Will be complied.
37	No groundwater shall be used for mining operations.	Will be complied.
38	Of the total quarry area of 214 ha. The backfilled quarry area of 24 ha shall be	Will be complied.

	reclaimed with plantation and a void of 106 ha at a depth of 140 m which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation / afforestation by planting native plant species in consultation with the local DFO/Agriculture department. The density of the trees shall be around 2500 plants per ha.	
39	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. 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, Forest & Climate change and the Central Pollution control board quarterly within one month of monitoring.	CMPDI RI IV is engaged by WCL for all mines. Will be complied.
40	The company shall put up artificial groundwater recharge measure 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.	Will be complied.
41	Sewerage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Will be complied.
42	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialised agency/institution within the District/State and the results reported to this Ministry and to DGMS.	Will be complied.

43	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.	Will be complied.
44	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF &CC and its concerned Regional Office.	Will be complied.
45	A detailed final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	Will be complied.
46	The project authorities shall in consultation with the Panchayats of the local villages and administration identify socio-economic and welfare measure under CSR to be carried out over the balance life of the mine.	Will be complied.
47	Corporate Environment Responsibility :	
	a) The company shall have a well laid down Environment Policy approved by the Board of Directors.	Coal India Environmental Policy approved by the Board of Directors is exist.
	b) 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.	Agreed.
	c) 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.	Agreed. Will be complied.
	d) To have proper checks and balances, the company shall have a well laid down system	Will be complied.

	of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.	
General Conditions		
1	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate change.	Will be complied.
2	No change in the calendar plan of production for quantum of mineral coal shall be made.	Will be complied.
3	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM ₁₀ , PM _{2.5} , SO ₂ and NO _x monitoring. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc carried out at least once in six months.	Will be complied.
4	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _x) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly submitted to the Ministry including its concerned Regional Office and to the State Pollution Control Board and the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognised under the EPA rules, 1986 shall be furnished as part of compliance report.	Will be complied.
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	Will be complied.

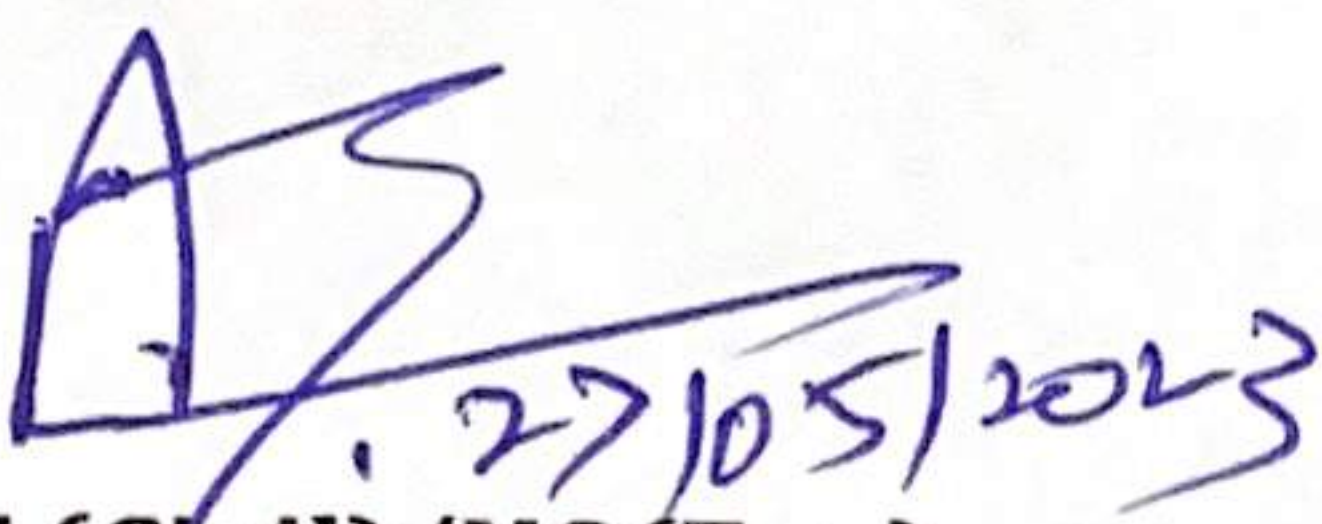
	ear plugs/muffs.	
6	Industrial wastewater (Workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Will be complied.
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.	Will be complied.
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.	Will be complied.
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.	Will be complied.
10	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	Will be complied.
11	A separate environmental management cell with suitable qualified personnel shall be set up	A separate environment cell exist at unit level Sub Area Manager assisted by Nodal Officer (Environment), at Area level Area

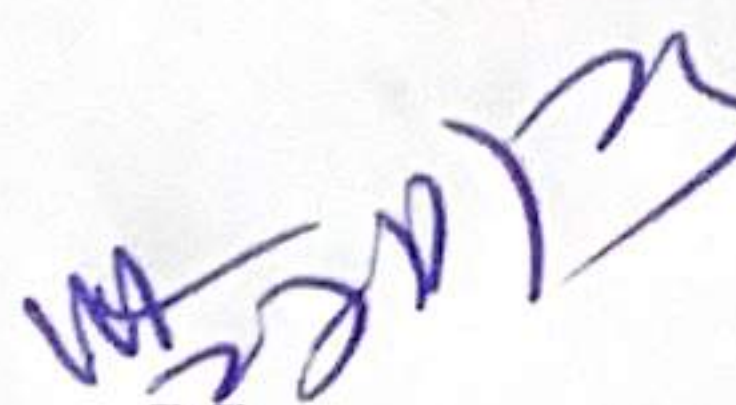
	under the control of a Senior Executive, who will report directly to the Head of the Company.	GM is assisted by ANO(Environment) and at Company level General Manager, Environment/HOD; who directly report to DT P&P, WCL.
12	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Will be complied.
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 .	Complied.
14	A copy of the environmental clearance letter shall be marked to concern Panchayat / Zilla 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 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 Collectors Office/ Tehsildar's Office for 30 days.	Complied.
16	The clearance letter shall be uploaded on the company's website.	Will be complied.

	<p>The compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameter (air, water, noise and soil) and critical pollutant such as PM₁₀, PM_{2.5}, SO₂ and NO_x(ambient) and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.</p>	
17	<p>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 this Ministry, respective Zonal offices of CPCB and the SPCB.</p>	Will be complied.
18	<p>The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The Project authorities shall extent full cooperation to the office(S) of the Regional Office by furnishing the requisite data/information/ monitoring reports.</p>	<p>Agreed.</p> <p>Will be complied.</p>
19	<p>The Environmental statement for each financial year ending 31 March in for-V is mandated to be submitted by 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 email.</p>	Will be complied.
20	<p>The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.</p>	Will be complied.

20	The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent	Will be complied.
21	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.	Will be complied.
22	The ministry or any other competent authority may stipulate any further condition for environmental protection.	Will be complied.
23	The proponent shall setup an Environment Audit cell with responsibility and accountability to ensure implementation of all the EC conditions.	Will be complied.
24	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Will be complied.
25	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble supreme court of India/High courts and any other Court of law relating to the subject matter. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case	Will be complied.

	of soil contamination, contamination of groundwater and surface water and occupational and other diseases due to the mining operations.	
26	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Will be complied.


 SOE (Civil)/NO(Env)
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