

SIX MONTHLY COMPLIANCE REPORT OF CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE

(OCTOBER' 2022 – MARCH'2023)

RAJUR UNDERGROUND COAL MINE

(Production Capacity 0.21 MTPA)

(EC Letter No.: J-11015/436/2006-IA.II(M) dated 17th May, 2007)



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: Rajur Underground Mine (for production capacity 0.21 MTPA)
EC Letter No.: MoEF & CC vide EC Letter No.: J/11015/436/2006-IA.II(M) dated
 17th May, 2007 (0.21 MTPA)
(For the period of October'2022 to March'2023)

A. Specific Conditions

Sl. No.	Specific Conditions	Compliance Status
i.	Mining shall be carried out as per statuette at safe distance from the river / nallah flowing adjacent to the lease boundary.	Mining is being carried at a safe distance from the river/ nallah flowing adjacent to the lease boundary.
ii.	While extraction panel in the lower seam by UG method. All water bodies in the subsidence area shall be drained. De- watering of old goaves of the upper seam shall be continued as long as the lower seam is worked to prevent accumulation of large water bodies over working area.	All water bodies in the subsidence area shall be drained while extracting panel in the lower seam.
iii.	At the time of de-pillaring protective bunds and garland drain shall be provided so that no water from the surface enters subsidence area and the shaft.	Not Applicable
iv.	Sufficient coal pillar shall be left un-extracted around the air shaft (within the subsidence influence area.) to protect from subsidence if any.	Not Applicable
v.	Solid barriers shall be left below the roads falling within the block to avoid any damage to the roads.	Agreed
vi.	No de-pillaring, operation shall be carried out below the road and village / area with habitation found within the lease until they are re-located.	Not Applicable
vii.	Regular monitoring of subsidence movement of the surface over and around the working area & impact on natural drainage pattern, water bodies, vegetation , structure , roads and surroundings , should be continue till movement ceases completely. In case of observation of any high rate of subsidence move- ment appropriate	Regular monitoring of subsidence movement is being done. In case of observation of any high rate of subsidence, appropriate effective corrective measures will be taken

	effective corrective measures should be taken to avoid loss of life & materials. Cracks should be effectively plugged with ballast and clayey soil / suitable material.	
viii.	Garland drains (Size, gradient & length) around the safety area such as mine shaft & low lying areas & sump capacity should be designed keeping 50% safety margin over an above the peak sudden rain fall and maximum discharge in the area adjoining the mine sides. Sump capacity should also provide adequate retention period to allow proper settling of silt material.	Garland drains of required size and gradient & length have been provided around mine shaft and low lying areas for smooth drain out the rain water.
ix.	Crusher at the CHP should be operated within high efficiency bag filter , water sprinkling system should be provided to check fugitive emissions from loading operation , conveyor system, haulage road , transformer points etc.	There is no crusher in Rajur UGM. However water sprinkling system does exist for twin bunkers, is check fugitive emission.
x.	Drills should be wet operated only	Not Applicable
xi.	Blasting should be practiced with use of delay detonators.	Blasting is done with delay detonators
xii.	A progressive afforestation plan shall be prepared & implemented over the mine lease area & shall include areas under green belt development, area along roads, infrastructure, along ML boundary and township outside the lease areas etc. by planting native species in-consultation with the local DFO, agriculture department. The density of the trees should be around 2500 plants per ha.	Three row plantations has been done along the coal transportation road and coal stockyard and also around the compound of the colony which is situated near the mine. Till date 18,574 no. trees have been planted.
xiii.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing well and construction of new peizometer. The monitoring for quantity should be done 4 time in a year in pre monsoon (May) , Monsoon (Aug) , Post monsoon (Nov) , and winter (Jan) seasons and for quality in May Data thus collected should submitted to be the ministry of environment and forest & to the central pollution control board quarterly within one month of monitoring.	Regular monitoring of ground water level and quality is being done four times in a year in pre-monsoon (May), monsoon(August), post-monsoon (November) and winter (January) and for quality in May. Data are being submitted regularly along with Six Monthly EC Compliance report

xiv	The company shall put up artificial ground water recharge measured for augmentation of ground water requirement of nearby village (s). In case the village wells go dry due to de-watering of mine.	Agreed, Water requirement of nearby villages will be supplemented by giving water to these villages, in case the village wells go dry due to de-watering of mine
xv	Beside carrying out regular periodic health check up of their workers, 10% of the workers identified from work force engaged in active mining operations shall be subjected to health check up for occupational diseases & hearing impairment, if any, through an agency such as NIOH, Ahamadabad within a period of one year and the result reported to this ministry and to DGMS.	Agreed, Periodical medical examination/health checkup of workers are regularly done in WCL hospital.
xvi	For monitoring land use pattern and for post mining land use, a time series of land use maps, bases on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of project until end of mine life shall be prepared once in three year (for any one particular season. Which is consistent in the time series) & the report submitted to MOEF & its regional office at Bhopal.	NA
xvii	A final mine closure. Plan along with details of corpus fund should be submitted to the ministry of environment of forest five year in advance of final mine closure for approval.	The final mine closure plan will be submitted to the ministry of environment of forest five year in advance of final mine closure for approval.
xviii	Consent to operate shall be obtained before starting mining operations after fulfillment of the condition imposed in NOC.	Consent to Operate is granted by MPCB vide consent order no 0000133037/CR/2209002069 dt. 30.09.2022 consent valid upto 30.04.2023. CTO Renewal Applied on 21.02.2023 for a period upto 30.04.2025 MPCB-CONSENT-0000163019

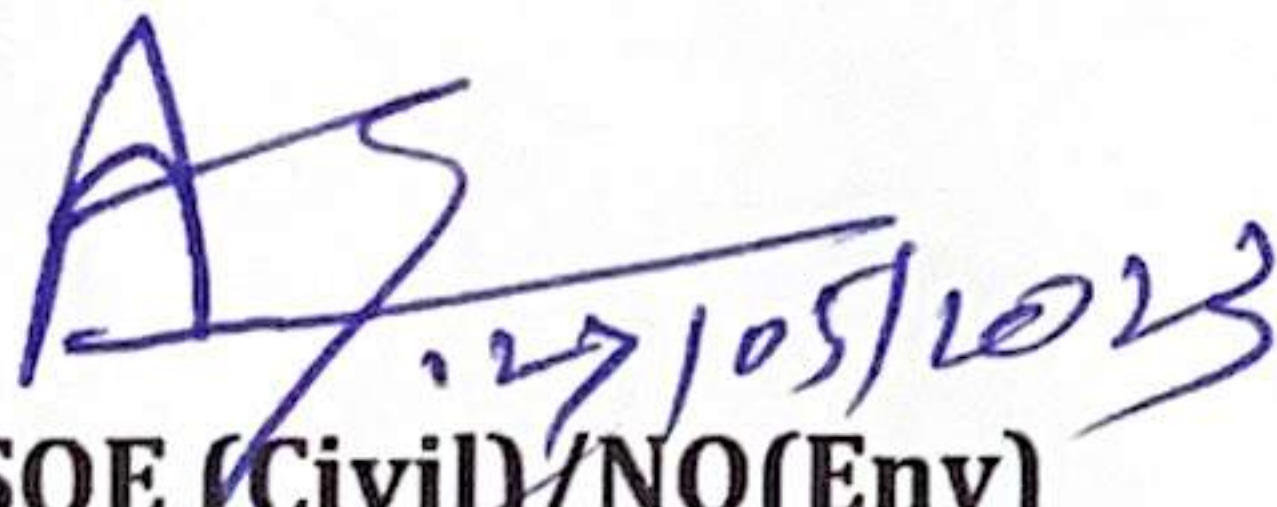
B. General Conditions

Sl. No.	Conditions	Compliance Status
i.	No. Change in Mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Agreed
ii.	No. Change in the calendar plan including excavation quantum of coal and waste/ OB dumps should be made.	Agreed

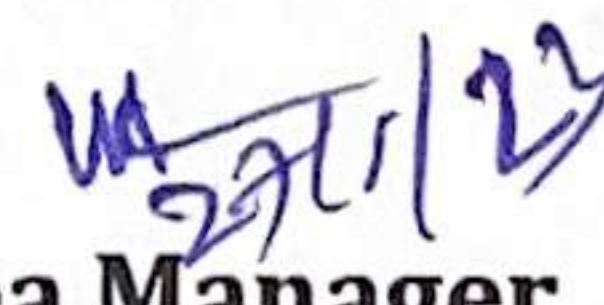
iii.	Four ambient air quality monitoring stations should be established in the core zone as well as buffer zone for SPM, RPM, SO ₂ and Co monitoring Location of the ambient air quality station should be decided based on the meteorological data, topographical features environmentally and economically sensitive targets in consultation with the State Pollution Control Board.	Four station have been located viz 1) Near Bhandewada Incline (W _N RUA-1) 2) Hutment/Substation (W _N RUA-2) 3) Pit Office –(W _N RUA-3) 4) SAM Office –(W _N RUA-4) Where in Ambient Air Quality is being monitored by CMPDIL, Nagpur on fortnightly basis.
iv.	Data on ambient air quality should be regularly submitted to this Ministry including its Regional Office at Bhopal and the State Pollution Control Board once in six months.	The ambient air quality is being monitored at every fort night and the observed values of different parameters are well within the permissible limit. Reports of Environmental Monitoring for October'2022 to March'2023 are enclosed with this report.
v.	Fugitive emissions should be controlled regularly monitored and data recorded properly. Adequate measures for control of fugitive emissions should be taken during drilling and blasting operations loading and transport of coal etc.	This is an underground mine and entire coal mining operations is carried out below ground. Moreover there is no overburden being generated. As such there is no other source of fugitive dust emission except coal transportation. Further during coal transportation overloading of trucks is avoided & trucks are covered with tarpaulin. In addition the roads used for coal transportation are black topped & maintained regularly. Entire drilling & blasting operations is carried out below ground & the operations for control of dust in U/G working faces are controlled as per Coal Mines Regulations . As such there is no impact of drilling & blasting on surface.
vi.	Adequate measures should be taken for control of noise levels below 85 dB in the work environment. The workers engaged in blasting and drilling operations, operation of HEMM etc. should be provided with ear plugs/muffs.	Regular noise level monitoring is being done by CMPDIL, Nagpur on fortnight basis. Reports of Environmental Monitoring for October'2022 to March'2023 are enclosed with this report. Workers exposed to high noise level areas (blasting/Drilling etc) are provided with ear Plugs/muffs
vii.	Industrial waste water (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dt. 19 th May, 1993 and 31 st December, 1993. The treated waste should be should be utilized for plantation purpose.	As it is U/G mine, there is no HEMM required washing/ maintenance. Work shop is very small for only small repair job. There is no waste water from workshop. Mine pumped out water is being treated in a sedimentation tank before discharge and regular monitoring of quality of water is being done.. Reports of Environmental Monitoring for October'2022 to March'2023 are enclosed with this report. The treated water is being utilized for plantation, dust suppression etc.

viii.	Vehicular emission should be kept under control and regularly monitored. Vehicles used for transporting the minerals should be covered with tarpaulins and optimally loaded.	PUC certificates of vehicles are checked time to time and vehicles used for transporting coal are properly covered with tarpaulin and are optimally loaded.
ix.	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the state Pollution Control Board.	Well established environmental laboratory exists at CMPDIL, Nagpur which monitors the Air, Water and Noise in the mining area.
x.	Personnel working in dusty areas should protective respiratory devices and they should also be provided with adequate training and information on safety and health aspect. Occupational health's surveillances programme of the workers should be undertaken periodically to observe any contractins due to exposure to dust and to take corrective measures if needed.	Protective health & safety gears were being provided to workmen exposed to dust during operation. The workers were also given regular training on safety & health aspects (Statutory requirement under Mines Act). Periodical medical examination is carried out for each employee once in every 5 year to detect any disease so that, appropriate action can be taken.
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 Organization.	Environment cell exists at HQ headed by GM (Environment) with team of qualified multidisciplinary Engineers. At area the cell is headed by Area General Manager assisted by GM (Operation) & Area Nodal officer (Environment), at project level the cell is headed by Sub Area Manager assisted by Nodal Officer of Environment. GM (Environment) of HQ directly reports to the Director (Technical) P&P.
xii.	The funds separate earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	The funds earmarked for environmental protection measures are maintained in separate account and used for the environmental protection work only.
xiii.	The regional office of this ministry located at Bhopal shall monitor compliance of stipulated conditions. The project authorities shall extend full co-operation to the offices of the regional office by furnishing the requisite date/information/ monitoring reports.	Noted.
xiv.	A copy of the clearance given by MOEF wil be morn to concerned Panchayat /local NGO if any from who any suggestion/ representation has been received while	A copy of clearance letter has been given to Surpanch Rajur Grampachayat.
xv.	State pollution control board should display a copy of a clearance letter at the regional office, district industry center and collector's office, Tahsildar's office for 30 days	Not Applicable.

xvi.	The project authorities should advertise at least in two local news paper 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 clearance letter is available with SPCB and may also be seen at the website of MOEF at http://envfor.nic.in .	Complied
xvii	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted.
xviii	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.	Noted.
xix	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.	Noted.


SOE (Civil)/NO (Env)
Ghonsa Sub Area


Mine Manager
Rajur UGM


Sub Area Manager
Ghonsa Sub Area