



**WESTERN COALFIELDS LIMITED**

**MAJRI AREA**

**JUNA KUNADA OPENCAST**

**EXPANSION PROJECT**

SIX MONTHLY  
EC COMPLIANCE REPORT

AS ON 30<sup>th</sup> September 2022

**PART - V**

Clearance letter No.

: J-11015/20/2012-IA.II (M)

Date

: 12<sup>th</sup> May 2015

A. SPECIFIC CONDITIONS				
Sl.No	Conditions	Compliance		
i.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	Noted.		
ii.	The validity of the EC is for the life of the mine or as specified in the EIA Notification, 2006, whichever is earlier.	Noted.		
iii.	All safety measures shall be taken as per Coal Mining Regulation Act, 1957 and related circulars	Noted.		
iv.	The area of Chargaon should be reclaimed with plantation of native species, as the Proponent has proposed to acquire 60 Ha area of Chargaon which will be backfilled & reclaimed with OB of Juna Kunada OCP.	Noted for compliance.		
v.	A detailed soil management plan should be in place for implementation.	Soil management plan was prepared & implemented accordingly		
		SN	Particular	Proposed
		1	Total OB excavated	27.628 Mm <sup>3</sup>
		2	Total OB backfilled	27.628 Mm <sup>3</sup>
		3	Total OB in external dump	Nil
		4	Total Top Soil in embankment	2.133 Mm <sup>3</sup>
5	Total Top soil available	4.094 Mm <sup>3</sup>		
vi.	The Chargaon area after reclamation should be given back to original land owners. However, the proponent informed that in the State Policy of Ministry of Coal, the land should be handed over to the State Govt. after reclamation. The proponent further informed that they will take necessary measure after consultation with Authorities concerned.	After the closure of the mine, the reclaimed leasehold area shall be surrendered to the State Government concerned following a laid down procedure as in vogue at that point of time.		
vii.	Remaining void of all the OCP should be backfilled upto the ground level over the period of life. The details of total land proposed to be backfilled & reclaimed to be given to the Ministry.	Noted for compliance.		
viii.	All previous EC conditions will continue with no external OB dump & there shall be no void in the mine. The proponents informed that OB from adjacent mines will be filled into this mine void.	Noted for compliance.		
ix.	Coal transport will be by mechanically covered trucks/tippers till the railway siding has to come up.	National Green Tribunal-West Zone, Pune, in the application no. 30(THC)/2013 has issued an order on dated 15.07.2015 (copy enclosed) stating that "it is the power of Central Government to ensure and regulate use of transport vehicle for carrying minerals with covered. Consequently, compliance directed against WCL is not required to be sought any more, unless judgment of the high court is shown to be challenged and varied."		

x.	The CSR Action Plan along with budgetary provisions from CSR fund be implemented for CSR activities.	The CSR Action Plan for the Area as a whole has been prepared which covers the CSR activities like drinking water facilities, health, medical camps, education, roads etc for the public/villagers of the surrounding villages of the mine.
xi.	The details of R&R and CSR should be provided in a booklet form for information of all stakeholders.	Complied
xii.	The mining area should be grounded by green belt having thick closed canopy of the tree cover.	At present 85,250 nos. of plants are planted on the embankment covering an area of 36.20 ha
xiii.	A plan for repairing/plugging the cracks found in houses should be drawn up & implemented.	There is no such reports regarding cracks in houses received so far, if any such report shall be received repairing/plugging the cracks found shall be done.
xiv.	The coal transportation will be by trucks covered with tarpaulin upto New Majri siding which is 7 kms by road & then by rail. The transportation of coal in the pit would be by dumpers, from siding to loading would be by pay loaders.	Mine is closed now hence no coal transportation is being done.
xv.	The production shall be within the same Mining Lease Area.	Mine is closed now hence no coal transportation is being done.
xvi.	The OB shall be completely re-handled at the end of the mining.	Noted
xvii.	The void area will be converted into water body. The rest of the area will be back filled upto the ground level & covered with about a meter thick top soil & put to use.	Noted.
xviii.	Garland drains be provided.	Garland drains has been provided around the mine.
xix.	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	An earthen embankment has been constructed along the side of the Wardha river flowing adjacent to the mine. Top of the embankment have a reduced level of atleast 198.65 m & at no place it's width is less than 30 m at the top.
xx.	The land after mining shall be brought back for agriculture purpose.	After the closure of the mine, the reclaimed leasehold area i.e. after bringing back the land for agriculture purpose shall be surrendered to the State Government concerned following a laid down procedure as in vogue.
	Mine water should be treated for discharge into the lagoon. The quality of lagoon water shall be regularly monitored & mitigation measures taken.	Noted for compliance.
xxi.	The CSR cost should be Rs.5 per tones of coal produced which should be adjusted as per the annual inflation.	Company has already formulated a policy of CSR cost @ Rs.5.00/tonne of coal produced.
xxii.	Everybody in the core area should be provided with mask for protection against fugitive dust emission.	Mine is closed/ discontinued
xxiii.	Dust mask to be provided to everyone working in the mining area.	Mine is closed/ discontinued
xxiv.	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Mine is closed/ discontinued
xxv.	People working in the core area should be periodically tested for the lung diseases & the	Mine is closed/ discontinued and there is no workers engaged in coal

	burden of cost on account of working in the coal mine area.	mining area in the mine.
xxvi.	The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.	At present 85,250 nos. of plants are planted on the embankment & OB dumps covering an area of 36.20 ha
xxvii.	The embankment constructed along the river boundary shall be of suitable dimensions & critical patches shall be strengthened by stone pitching on the river front side & stabilized with plantation so as to withstand the peak water flow & prevent mine inundation.	An earthen embankment has been constructed along the side of the Wardha river flowing adjacent to the mine. Top of the embankment have a reduced level of 6 m above HFL & at no place it's width is less than 30 m at the top. Total 43,000 nos. of plant already planted on embankment. Stone pitching on the river front side is proposed at critical patches of embankment and presently sand filled bag pitching is provided at critical patches of embankment.
xxviii.	There shall be no overflow of OB into the river & into the agricultural fields & massive plantation of native species shall be taken in the area between the river & the project.	Necessary steps has been taken to check the overflow of OB into the river & into the agricultural field like grass turfing on slope of embankment, making of wall of sand bags at the toe of embankment etc
xxix.	OB shall be stacked at two earmarked external OB dumpsite(s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring & management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests & its concerned Regional Office on yearly basis.	OB is used to fill the voids of old Chargaon Mine.
xxx.	Catch drains siltation ponds of appropriate size shall be constructed to arrest silt & sediment flows from soil, OB & mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient & 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 provide adequate retention period to allow proper settling of silt material.	There is no external OB Dumping. Entire excavated OB is being accommodated in the already de-coaled void of Chargaon OC, As such construction of catch drains against the OB dumps does not arise. Cross drain provided on OB and coal benches guiding entire seepage water to the sump provide at the floor of the seam. The sump capacity is sufficient to allow adequate retention time for proper settling of suspended particles.
xxxi.	Dimensions of the retaining wall at the toe of dumps and OB benches within the mine to checkup run-off and siltation should be based on the rainfall data.	There is no external OB Dumping. Entire excavated OB is being accommodated in the already de-coaled void of Chargaon OC, As such construction of retaining wall at the toe of the OB dumps does not arise. Further, cross drainage has already been provided along the OB Benches which are continuously moving front. The cross drainage carry all the silt and sediments into the mine sump made at the floor of the seam. Therefore, construction of retaining wall at the OB Benches is



		not required.
xxxii.	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 emission from crushing operations, conveyor system, haulage roads, transfer points etc.	Mine is closed/ discontinued and CHP is not in operation and is being dismantled as per the provision of mine closure activities
xxxiii.	Drills shall be wet operated.	Mine is closed due to DGMS Regulations
xxxiv.	The project authorities shall undertake regular repairing & tarring of roads used for mineral transportation. A 3- tier green belt comprising of mix of native species shall be developed all along the major approach roads.	Regular repairing & tarring of roads used for coal transportation is being done. A thick green belt comprising of native species has already been developed along the major approach roads. In addition, it is proposed to cover the all other coal transportation roads also in phase manner.
xxxv.	Controlled blasting shall be practiced with the use of delay detonators and only during day time. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Mine is closed due to DGMS Regulations
xxxvi.	A Progressive afforestation plan shall be implemented covering an area of 199.22 ha at the end of mining, which includes reclaimed external OB dump area (34 ha), internal OB dump area (60 ha), along ML boundary, along roads & infrastructure (0.50 ha), & green belt (30 ha) & in township located outside the lease area 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 & a 3-tier avenue plantation along the main approach roads to the mine.	At present 85,250 nos. of plants are planted on the embankment & OB dumps covering an area of 36.20 ha The plantation has been done through expert, Govt., forest agency M/s. FDCM of Maharashtra. The density of the tree is around 2500 plants per Ha.
xxxvii.	An estimated total 35.538 Mm <sup>3</sup> of OB will be generated during the entire life of the mine. Out of which 35.538 Mm <sup>3</sup> of OB will be dumped in one internal OB dumps in Chargaon OC an earmarked area covering 60 ha of land. The OB dump height is upto ground level. There are no external OB dumps. The maximum slope of the dump shall not exceed 28 degrees. Monitoring & management of reclaimed dumpsites shall continue till the vegetation becomes self-sustaining & compliance status shall be submitted to the MOEF & its concerned Regional Office on yearly basis.	Noted.
xxxix.	The proponent should prepare restoration & reclamation plan for the degraded area. The land be used in a productive & sustainable manner.	Noted.
xl.	Compensatory Ecological & Restoration of waste land, other degraded land & OB dumps in lieu of breaking open land be carried out.	Noted.
xli.	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	Noted.
xlii.	No groundwater shall be used for mining operations.	No groundwater is being used for mining operations.

xliii.	Of the total quarry area of 69.98 ha, the backfilled quarry area of 55 ha shall be reclaimed with plantation & void of 60 ha at a depth of 150 m which is proposed to be converted into a water body shall be gently sloped & the upper benches shall be terraced & 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.	Noted.
xliv.	Regular monitoring of ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. 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 Ministry of Environment & Forests and the Central Ground Water Board, Regional Office quarterly within one month of monitoring.	Well water monitoring for assessing the ground water level in the villages of buffer zone is being carried out through M/s Ecomen Laboratories Pvt. Ltd., Lucknow. <i>Report of the period December 2019 to July 2021 monitoring has been submitted to your good office vide our letter no. WCL/MA/AGM/ENV/2021/263 dated 16.11.2021 through e.mail dated 18.11.2021</i>
xliv.	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resources. The project authorities should meet water requirement of nearby village (s) in case the village wells go dry due to de-watering of the mine.	Arrangement has been made for artificial ground water recharge measures & adopted rain water harvesting for various infrastructure, buildings. The project will provide drinking water to the nearby villages in case of village wells go dried due to dewatering of the mine. At present there is no such case reported.
xlvi.	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop & CHP wastewater.	Sewage treatment plant of 0.40 MLD capacity has already been installed in the existing colony. Workshop ETP & ETP for CHP water was provided, However, since the mine is closed ETP is not in operation
xlvii.	Besides carrying out regular periodic health checkup of their 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 specialized agency/institution within the District/State & the results reported to this Ministry & to DGMS.	Being complied & report is being submitted to the DGMS on regular basis.
xlvi.	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.	Land oustees are compensated as per the norms laid out R&R Policy of CIL.
xlix.	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 and its concerned Regional Office.	<i>Complied. Land use pattern monitoring of Juna Kunada CC Mine has been done in year 2020 and report of same is uploaded on WCL Website.</i>
I.	A detailed Final Mine Closure Plan along with details of Corpus Fund shall be submitted for approval to the Ministry of Environment and Forest within 6 months of grant of Environmental Clearance.	During 2021-22, an amount of Rs 0.00 has been deposited in Escrow account (A/c no. 08973161009637 (Renewed)). Balance as on 31.03.2022 is Rs 31,27,69,401.30


ii.	The project authorities shall in consultation with the Panchayats of the local villages & administration identify socio-economic & welfare measures under CSR to be carried out over the balance life of the mine.	CSR action plan is prepared with the consultation of Panchayats of the local villages.
iii.	The commitment made by the proponent to the issue raised during Public Hearing shall be implemented by the proponent.	Implemented.
liii.	Corporate Environment responsibility :	
a.	The company shall have a well laid down Environment Policy approved by the Board of Directors.	The company has a well laid down Environment Policy approved by the Board of Directors.
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.	The Environment Policy prescribes for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
c.	The hierarchical system or Administrative Order of the company to deal with environmental issues & for ensuring compliance with the environmental clearance conditions shall be furnished.	The hierarchical system or Administrative Order of the company to deal with environmental issues & for ensuring compliance with the environmental clearance conditions is clearly defined in the environmental policy of the company.
d.	To have proper checks & 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.	The company has 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.
<b>B GENERAL CONDITIONS</b>		
Sl.No	Condition	Compliance
i.	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forests & Climate Change.	Noted.
ii.	No change in the calendar plan of production for quantum of mineral coal shall be made.	Noted.
iii.	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> 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.	The ambient air quality monitoring at present is being carried out at four stations in core and buffer zone which are as follows:-1.Pit office Juna Kunada OC. 2. Ekta Nagar Colony, 3. Chargaon village 4. Chargaon SAM Office.  The above locations have been finalized by CMPDIL on the basis of meteorological data, topographical features etc.
iv.	Data on ambient air quality (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>x</sub> ) & heavy metals such as Hg, As, Ni, Cd, Cr & other monitoring shall be regularly submitted to the Ministry including concerned Regional Office and to the State Pollution Control Board & the Central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under EPA rules, 1986 shall be furnished as part of compliance report.	Reports on ambient air quality are being submitted to state Pollution Control Office, Chandrapur quarterly. The same is also submitted to MOEF, Regional Office, Nagpur along with six monthly report.



v.	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc should be provided with ear plugs/muffs.	Adequate measures namely proper maintenance of HEMM and controlled blasting was taken when the mine was operational so as to control noise levels below 85 dB(A). Mine is closed now due to DGMS Regulation. Two nos. stations are there for monitoring the noise level data namely i.e. I. Near project Office, ii. Ekta Nagar Colony.
vi.	Industrial waste water (workshop and waste water from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 <sup>th</sup> May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Mine is closed/ discontinued now due to DGMS Regulation Mine water is collected in the sump in the quarry itself where first stage settlement is done itself.
vii.	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	As mine is discontinued, there is no light vehicle in this mine. Also, there is no coal transportation from this mine
viii.	Monitoring of environmental quality shall be carried out through establishment of adequate numbers & type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board & data got analyzed through a laboratory recognized under EPA rules, 1986.	A full fledged Environmental laboratory under CMPDIL exists at Nagpur, which monitors all the mines of WCL.
ix.	Personnel working in dusty areas should wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Personnel working in dusty areas are provided with dust masks. The workers are given training/refreshers training in VTC on safety and health aspects which is also a statutory requirement under Mines Act 1952.
x.	Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed & records maintained thereof. The quality of environment due to outsourcing & the health & safety issues of the outsourced manpower should be addressed by the company while outsourcing.	Periodic medical Examination for all workers once in every five years is carried out and record maintained to observe any disease and to take corrective measures, if needed.
xi.	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.	Environment Cell exists at HQ, Area, & project level. GM (Environment) of HQ directly reports to the head of the Organization.
xii.	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 have been earmarked for environment protection measures and is kept in separate account and is not diverted for other purpose.



xiii.	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in vernacular language of the locality concerned within seven days of issue of the clearance letter informing that the project has been according environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> .	Complied. Advertisement given in following 2 Newspapers :-  1. The Hitwada (English) dated 19.05.2015  2. Sakal (Marathi) dated 17.05.2015
xiv.	A copy of the clearance letter shall be marked to concerned Panchayat/ Zilla Parishad, Municipal Corporation or Urban local body & Local NGO if any, from whom any suggestions/ representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on company's website.	A copy of clearance letter given to concerned Panchayats on 02.06.2015 vide letter no.WCL/MA/AGM/ENV//2015/126 dated 17.05.2015.
xv.	A copy of the environmental clearance letter shall be displayed on the website of the State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industry Sector and Collector's Office/ Tahasildar's Office for 30 days.	Complied.
xvi.	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 & updated at least once every six months so as to bring the same in public domain. The monitoring data of environmental quality parameters (air, water, noise & soil) & critical pollutants such as PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , & NO <sub>x</sub> (ambient) & critical sectoral parameters shall also be displayed at the entrance of the project premises & mine office & in corporate office & on company's website.	Complied.
xvii.	The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental clearance conditions (both in hard copy & in e-mail) to the respective Regional Office of the Ministry, respective Zonal Office of CPCB & the SPCB.	It is being submitted on regular basis to the Regional office, Nagpur, Ministry of Environment And Forest, Govt. Of India.
xviii.	The Regional Office of this Ministry located in the Region shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports.	Agreed.
xix.	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 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 & shall be sent to the respective Regional Offices of the MOEF by e-mail.	Noted for compliance.

  
 Sub Area Manager  
 Juna Kunada Opencast Project  
 Majri Area, Western Coalfields Limited