

**WESTERN COALFIELDS LIMITED**

**SIX MONTHLY**

**EC COMPLIANCE REPORTS**

**FOR PERIOD OF**

**1<sup>st</sup> October 2022 to 31<sup>st</sup> March 2023**



**KOLGAON OC EXPANSION PROJECT**

**WANI AREA, WCL**

**STATUS OF COMPLIANCE OF ENVIRONMENT CLEARANCE**  
**CONDITIONS OF KOLGAON OPENCAST**  
**MOEF CLEARANCE LETTER NO J-11015/228/2009/IA-II(M) DATE**  
**16.02.2012**

☐ **A) SPECIFIC CONDITIONS**

S.N.	Conditions	Status of Compliance (as on 31/03/2023)																												
I	No washery shall be established within the ML without prior environmental clearance from this ministry.	Noted for compliance. No washery is installed within the EC area of mine.																												
Ii	Topsoil shall be stacked properly with proper slope at earmarked 'site(s)' of the two top soil dumps shall not be kept active and shall be used within a year of its generation for reclamation and development of green belt.	<p>Topsoil is being stacked separately and the details are given below as on 31/03/2023:</p> <table><tr><th>Sr. No.</th><th>Dump Name</th><th>Type of Soil (BC/ Hard Soil)</th><th>External/ Internal</th><th>Area (in Ha)</th><th>Height of Dump (in m)</th><th>Volume (in Mm3)</th></tr><tr><td>1</td><td>TS1B</td><td>BC</td><td>External</td><td>17.74</td><td>30</td><td>1.59</td></tr><tr><td>2</td><td>TS4</td><td>BC</td><td>External</td><td>10.16</td><td>30</td><td>1.4</td></tr><tr><td>3</td><td>TS3</td><td>BC</td><td>External</td><td>3.31</td><td>13</td><td>0.26</td></tr></table> <p>Top soil removed in FY 2021-22 – 2.263 Mm<sup>3</sup> Top soil removed in FY 2022-23 – 0.772 Mm<sup>3</sup>  At present, no dump is final for spreading of top soil and further plantation.</p>	Sr. No.	Dump Name	Type of Soil (BC/ Hard Soil)	External/ Internal	Area (in Ha)	Height of Dump (in m)	Volume (in Mm3)	1	TS1B	BC	External	17.74	30	1.59	2	TS4	BC	External	10.16	30	1.4	3	TS3	BC	External	3.31	13	0.26
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Iii	The embankment constructed along the river boundary shall be of suitable dimension and stabilized with plantation so as to withstand the peak water flow and prevent mine inundation	An embankment is constructed for total length 6km with width 30m and height 6m in the mine.																												
iv	OB shall be stacked at the six earmarked external OB dumpsite(s) only covering an area of 65 ha and shall not exceed the max. Height of 60m consisting of benches of 15m each. The ultimate slope of the	OB dumps are stacked at the earmarked external OB dumpsites. At present 2 Nos. external OB dumps exists. Proper benching of OB dumps are done to maintain ultimate slope of OB is less than 28 degrees. Six monthly compliance report is submitted to RO, MoEF&CC Nagpur.																												

	<p>dump shall not exceed 28" Bamboo and other native species shall be planted on OB dumps for slopes stability, Monitoring and management of the reclaimed dumpsite shall continue until the vegetation becomes sustaining</p> <p>Compliance status shall be submitted to the Ministry of Environment &amp; Forests and its Regional offices located at Bhopal on yearly basis</p>	
v)	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest site and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted and maintained properly.</p> <p>Garland drains (size, gradient &amp; 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. Dimension of the retaining wall</p>	<p>Garland drain along the periphery of the embankment has been provided for a length 8370m, width 3m and height 3m. Catch drains of dimension 3000 m length, 3.5m width and 3m height is provided around OB dump as well as around the quarry. Desilting is done before every monsoon.</p> <p>The sump of adequate capacity, considering peak rainfall to provide initial settlement of suspended particles. The water then is being pumped out on surface &amp; led into surface sedimentation tank of size 2 Nos. of each 22 m x 4m x 2.5m</p>

	at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	
vi)	Crusher of 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, haulage roads, transfer points. Etc.	At mining lease area of Kolgaon OC mine, no CHP is present. The coal from Kolgaon Mine is crushed at dedicated CHP located at Ghugus OC. The CHP is fully covered with GI sheets and mist sprinklers are installed inside CHP.
vii)	Drill shall be wet operated.	1 No. drill is present which is fixed with wet drilling technology and dust extractor.
viii)	The project authorities shall ensure that the roads used for mineral transportation are black topped and are properly maintained A-3 tier green belt comprising of a Mix of native species shall be developed all along the major approach roads and major haul roads.	<p>The length of road within mining lease area is given below:</p> <ol style="list-style-type: none"> <li>1. Bitumen road is 1.6 km and</li> <li>2. Concrete road is 200 m</li> </ol> <p>The coal transportation road from Kolgaon mine to Ghugus has an average lead of 13.163 Km. The complete road is black top with few concrete sections at critical areas.</p> <p>Till date 2500 Nos. of plants have been planted near roadside within EC area of mine.</p>
ix)	The capacity of trucks used for transportation shall be minimum 25T trucks and shall be mechanically covered.	The capacity of trucks deployed for coal transportation is as per approved guidelines. All the trucks are covered with Tarpaulin before leaving mine premises.
x)	Controlled blasting shall be practical with use of delay detonators and only during daytime. The mitigative measures for control of ground	Controlled blasting is in practice with due permission from DGMS . All conditions stipulated by DGMS for control of ground vibration and for arresting fly rocks & boulders are strictly followed during actual operation.

	vibrations and to arrest the fly rocks and boulders shall be implemented.	
xi)	<p>A progressive afforestation plan shall be implemented covering an area not less than 160.77 ha, which includes reclaimed external OB dump and embankment area and (71.8 ha). Backfield area(30 ha), along ML boundary, along roads and infrastructure ( 3 ha), embankment (16.85 ha) and within vacant land (55.92 ha) and in 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 avenue plantation along the main approach roads to the mine.</p>	<p>Till 31/03/2023 total 48100 nos. of plants have already been planted in a total area of 19.24 ha around the mine. The species planted are Neem, Karanj, Arjun, Mango, Jamun, Gulmohar, etc. 45600 Nos. plants have been planted in plain land 19.25 Ha area and 2500 Nos. plant planted in 1.25 Ha area have been planted near road within mine premises.</p>
xii)	<p>Of the total quarry area of 116.56 ha, the backfield quarry area of 65.20 ha shall be reclaimed with plantation using native species and a void of 72.38 ha proposed at the post mining stage and to be converted into &amp; water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation /a</p>	<p>Plantation on backfilled area will be done in future after mine closure.</p>

	<p>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.</p>	
xiii)	No groundwater shall be used for the mining operation. .	At present no Ground water is used for mining operation.
xiv	<p>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August) post-monsoon (November) &amp; winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment &amp; Forests and the Central Pollution Control Board, quarterly within one month of monitoring.</p>	<p>Regular monitoring of ground water level from existing wells at 20 locations of Buffer zone is being done by third party M/s. Anancon Laboratories Pvt. Ltd. Nagpur, for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons.</p> <p>The monitoring report is regularly sent to Regional Officer, CGWB Nagpur with a copy to MoEF&amp;CC &amp; CPCB.</p> <p>Copy of ground water monitoring report and forwarding letter is enclosed.</p>
xv)	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	Deepening of pond under CSR have been done at Takli and Shivni village.

	go dry due to dewatering of mine	
xvi)	Sewage treatment plant shall be installed in the colony. ETP shall also be provided for workshop and CHP waste water.	There is no dedicated colony for Kolgaon OC mine, in its mining lease area. People working at Kolgaon OC mine resides at Kailashnagar colony (township within mining lease area of Mungoli OC). At Kailashnagar, 0.40 MLD capacity STP is provided. The mine fully contractual thus no workshop exists. Therefore, no ETP is provided.
xvii)	Besides carrying out regular periodic health check up of their workers, 10 % at 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 agency / institution within the district as within a period of one year and the recruits reported to this ministry and to DGMS as part of compliance report.	Initial medical examination (IME) is done for the workers. Moreover, regular health checkups through periodical medical examination (PME) of all the workmen once in 5 years as per the statute and workers above 55 years of age once in a year is conducted. All the works are being carried out with all the safety measures and awareness is being created among employees for safety and to avoid any accidents.
xviii)	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 Regional officer at Bhopal. .	Restoration/Reclamation Monitoring of all mine of WCL having less than 5 million cum. (Coal+OB) capacity is being done once in 3 year by Satellite and the data is available in the website of WCL. The satellite data for Kolgaon OC mine for year 2020 is enclosed. Data is submitted to Regional Office, MoEF&CC, Nagpur on six monthly basis.
xix)	A final mine Closure plan along with details of corpus Fund shall be submitted to the ministry of Environment &	The final mine void depth, backfilling, afforestation etc. will be done as per approved Mine closure plan. The Mine Closure Plan for this project was approved on June 2012 by the WCL Board along with opening of a corpus fund / account having account no. 08973161009453 was opened at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus

	forests 5 years before mine closure for approval, in case the deep side extension project is not planned / implemented	Amounts available in the account as on date 31.03.2023 is 509132953 INR (Including the principal along with the interest).																																																							
xx)	<p>The project authorities shall in consultation with the panchayat of the local villages identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine. A budget / provision of Rs 5 per tonne of coal shall be earmarked for CSR activities. The villages to be adopted under CSR shall include kolgaon, Takli, Chikhali, Jugad Sindola and Sakhara. The budget and expenditure therein village-wise and activity-wise for CSR shall be displayed on WCL website and also included as part of the Annual Plan.</p>	<p>The sanctioned CSR fund and expenditure (workwise, village wise along with amount) is displayed in official WCL portal.</p> <p>Skill development training is provided to project affected people of all mines of Wani Area at Vocational Training Center, Ghugus of regular basis.</p> <p>The details of Skill development program is given below:</p> <table><tr><th>Sr. No</th><th>Trade</th><th>Duration</th><th>Days</th><th>Participant</th></tr><tr><td>1</td><td>Welding &amp; Fabrication</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>35</td></tr><tr><td>2</td><td>Electrician</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>40</td></tr><tr><td>3</td><td>Agrobased</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>20</td></tr><tr><td>4</td><td>Beauty Parlour</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>35</td></tr><tr><td>5</td><td>Solar System</td><td>23/01/2017 to 22/02/2017</td><td>25</td><td>30</td></tr><tr><td>6</td><td>Basic Tailoring Course</td><td>14/09/2018 to 13/10/2018</td><td>25</td><td>60</td></tr><tr><td>7</td><td>Beauty Parlour</td><td>09/02/2019 to 10/02/2019</td><td>25</td><td>30</td></tr><tr><td>8</td><td>Electrical gadget repairing course</td><td>09/02/2019 to 10/02/2019</td><td>25</td><td>30</td></tr><tr><td>9</td><td>Tailoring course</td><td>14/11/2019 to 12/12/2019</td><td>25</td><td>41</td></tr><tr><td>10</td><td>Beautician Course</td><td>27/02/2020 to 17/03/2020</td><td>Stopped due to COVID 19 (8 days of class remaining)</td><td>30</td></tr></table> <p>In addition to this people from nearby villages are employed in contractual mining and civil works.</p> <p>Health camps are being conducted in nearby villages with our company doctors and medical staff for improving awareness and health consciousness among people. Last program was conducted on 12/11/2021 at Mungoli village benefiting 132 Nos. villagers.</p> <p>CSR clinic is provided at Area Hospital, Rajiv Ratan Central Hospital for PAF. CSR day is scheduled on Monday and Thursday. An average of 1100 Nos. of people from project affected families from nearby villages of mines of Wani Area gets treated in the hospital every month.</p> <p>Approved CSR policy of CIL is being followed.</p>	Sr. No	Trade	Duration	Days	Participant	1	Welding & Fabrication	15/10/2015 to 05/11/2015	18	35	2	Electrician	15/10/2015 to 05/11/2015	18	40	3	Agrobased	15/10/2015 to 05/11/2015	18	20	4	Beauty Parlour	15/10/2015 to 05/11/2015	18	35	5	Solar System	23/01/2017 to 22/02/2017	25	30	6	Basic Tailoring Course	14/09/2018 to 13/10/2018	25	60	7	Beauty Parlour	09/02/2019 to 10/02/2019	25	30	8	Electrical gadget repairing course	09/02/2019 to 10/02/2019	25	30	9	Tailoring course	14/11/2019 to 12/12/2019	25	41	10	Beautician Course	27/02/2020 to 17/03/2020	Stopped due to COVID 19 (8 days of class remaining)	30
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xxi)	<p>The company shall have a well laid down Corporate Environmental policy approved by the Board of Director. The Environment Policy shall prescribe for standard operating process / procedures to bring in to focus any infringement / deviation/ violation of the environmental norms /condition to provide for checks and balances the company should have a well laic out system of reporting on non compliances/ violations of environmental norms to the Board of Directors of the company and /or shareholders or stakeholders at large.</p>	<p>Coal India Limited (CIL) has formulated a comprehensive Environment Policy only in March 2012, followed by a revised policy in December 2018 approved by CIL Board in its 377th Meeting held on 20th December'2018 for implementation at CIL and its subsidiaries.</p> <p>This Corporate Environment Policy 2018 of CIL was subsequently discussed in the 309th Meeting of the Board of Directors of WCL held on 04.03.2019. After deliberation, WCL Board has adopted the policy in principle for implementation in WCL and the same was communicated vide Ref: WCL/BD/SECTT/BM-309/2019/267 dated 15.03.2019.</p>
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### **GENERAL CONDITIONS :**

S.N.	CONDITIONS.	STATUS OF COMPLIANCE.
i	No change in mining technology and scope working shall be made without prior approval of the ministry of environment and forests.	Noted for compliance. No change has been made or envisaged in future.
ii	No change in the calendar plan including excavation quantum of mineral coal and waste shall be made.	Noted for compliance.
iii	Four ambient air quality-monitoring stations shall be established in the core zone as well as buffer zone for PM 10 PM 25 SO <sub>2</sub> & NO <sub>x</sub> monitoring, location of the stations shall be decided based on the meteorological data topographical feature. Environmentally & ecologically sensitive targets in consultation with the State Pollution Control board.	<p>Four monitoring stations has been established in the project. Two core zones stations i.e. SAM office, Mungoli and Manager Office, Kolgaon. Two buffer zone stations have been established at villages namely Kailashnagar township filter plant and Kolgaon village. SPM, PM10, PM2.5, SO<sub>2</sub>, Nox is being monitored regularly at these station on fortnightly basis.</p> <p>Ambient air Heavy metal monitoring is being done once in six month.</p> <p>Both the results are being online submitted via email id waniarea.environdept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&amp;CC Nagpur.</p> <p>And reports is been sent to Regional officer, MPCB and MOEF in six monthly compliance.</p>

iv	Fugitive dust emissions (PM 10 & PM 2.5) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, loading & unloading / transfer points shall be provided and properly maintained.	Dust emissions is controlled by providing 08 Nos. rain guns along weigh bridge road . Both side, Weigh Bridge approaches of length 700 m have been concreted. The approach road of 2.30 Km length upto coal stock yard has been black topped.
V	Data on ambient air quality (PM,10 PM 2.5 SO <sub>2</sub> ,& NO <sub>x</sub> ,) shall be regularly submitted to the ministry including its regional office at Bhopal and the state Pollution Control Board & the Central Pollution Control Board once in six months.	Ambient air quality results are being online submitted via email id waniarea.environdept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur. And reports is been sent to Regional officer, MPCB and MOEF in six monthly compliance.
Vi	Adequate measures shall be taken for control of noise levels below 85 DB (A) in the work environment. Worker engaged in blasting and drilling operations of HEMM.CHP etc. shall be provided with ear plugs/muffs.	Noise levels are being monitored and all the necessary measure are made to reduce noise pollution in the mines. The required personnels are being given with Personal protective equipment (PPE) like ear plugs/muffs. The issuance of safety equipment like dust mask, safety jacket, helmet, mining shoe and gumboot is given in Specific condition Sr. No.(x)
Vii	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 <sup>th</sup> may 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time. Oil grease trap should be installed before discharge of workshop effluents.	Waste water from the mine i.e. Mine pumped-out water is the strata water, seepage water which gets collected at the mine sump. The sump allows significant retention period for settling of suspended particles. The supernatant water is then pumped out from the mine and fed into the surface sedimentation pond. The water discharged from sedimentation pond is then let off for natural discharge. Sedimentation tank of dimension - 2 Nos. of each 22 m x 4m x 2.5m is provided
Viii	Vehicular emissions shall be kept under control and regularly monitored. Vehicular used for transporting the mineral shall be covered with tarpaulins and optimally loaded till the mechanically conversed trucks introduced by company.	Light vehicles used are having valid PUC certificate Vehicles used for transporting the minerals are covered with tarpaulin and optimally loaded
Ix	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the state pollution control board.	CMPDI – RI- IV, Nagpur monitors the pollution at mine. It is well equipped and has NABL accredited laboratory.

X	Personnel working in dusty areas shall wear protective respiratory devices and they should also be provided with adequate training and information on necessary safety and health aspects. Occupational health surveillance programme of the workers shall be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed and records maintained thereof .	Workers engage in industry areas are provided with appropriate dust mask However safety measures are being taken. Health aspects are taken care through regular Periodical Medical examination. The workers are given regular training on safety and health aspects. As per statute, Periodical medical examination is carried out for each employee once in every 5 years to detect any diseases so that appropriate actions can be taken. PME report enclosed.
Xi	A separate environmental management cell with suitable qualified personnel shall be set-up under the control of a Sr. Executive, who will report directly to the head of the company.	To deal with environmental issues and for ensuring compliance with environmental clearance conditions at project level Environmental management cell is headed by Sub Area Manager and is assisted by Project Nodal officer (Env). At area level, Area General Manager, Heads the environment cell and is assisted by General Manager (Op) and Nodal officer (Env). At corporate level at HQ, there is full fledged Environment Department which is headed by General Manager (Env) with a multi disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.
Xii	The funds earmarked for environmental Protection measures should kept in separate account and shall not be diverted for other purposes. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal.	Funds earmarked for environmental protection measure is not being diverted and exclusively used for Environmental activity. Environment Revenue expenditure in FY 2022-23 was Rs 65,00,000.00.
Xiii	The regional office of this Ministry located at Bhopal 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. All assistance required as well as data will be provided to the officials of Regional office, MoEF&CC.
Xiv	A copy of the will be marked to concerned Panchayat/local NGO, if any, suggestion/representation has been received while processing the proposal.	Complied.
Xv	State pollution control Board shall display a copy of the clearance letter at the Regional office, District Industry Center and Collector's office/Tehsildar's office for 30 days.	Not applicable.
Xvi	The project authorities shall advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernicular language of the locality concerned within seven days of issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available	Complied and copies of advertisement submitted to MoEF&CC.

	with the state Pollution Control Board and may also be seen at web site of the Ministry of Environment, Forests and Climatic change.	
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**Sub Area Manager**  
**Mungoli Sub Area**