

SIX MONTHLY COMPLIANCE REPORT OF CONDITIONS STIPULATED IN ENVIRONMENTAL CLEARANCE

For

OCTOBER'2022 – MARCH' 2023

PIMPALGAON OC COAL MINE

(Production Capacity 1.5 MTPA)

(EC Letter No.J-11015/314/2006-IA.II (M) dated 20th March, 2007)



WESTERN COALFIELDS LIMITED

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

Office of the Sub Area Manager, Kolarpimpri-pimpalgaon Sub Area,
Post- Rasa, Teh.- Wani, Dist.- Yavatmal, Maharashtra -445304

STATUS OF COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

Name of the Project : Pimpalgaon Extension Open Cast Mine (for production capacity from 0.60 MTPA to 1.50 MTPA)

EC Letter No.: MoEF&CC vide letter no. J-11015/314/2006-IA.II(M) Dated 20th March, 2007

A. Specific Conditions

Sl. No.	Specific Conditions	Compliance Status								
i)	Mining shall be carried out as per statuette at safe distance from Wardha river.	Mine is 2.5 km away from Wardha River								
ii)	The Embankment constructed along the river shall be of suitable dimensions and stabilized with plantation so as to withstand the pick water flow and prevent mine inundation.	Embankment along the mine has been constructed in 25 mtrs width and 2.5 mtrs height from GL to protect the mine from inundation. Currently the mine is not in operation								
iii)	Top soil stacked properly with proper slope at earmarked site (s) should not be kept active and shall be used immediately for reclamation and development of green belt.	Agreed. Currently the mine is not in operation								
iv)	OB should be stacked at the earmarked 5 external dump sites within ML area, which shall be maximum height of 60 mtrs only and consists of four benches of 15 mtrs each. The ultimate slope of the dump shall not exceed 28 degree. Monitoring and management of reclaimed dump site should continue until the vegetation becomes self- sustaining. Compliance status should be submitted to the ministry of Environment & forests and its Regional Office located at Bhopal on a yearly basis.	OB stacked at earmarked site within ML area as per statutory regulations. <table border="1"><tr><td>Dump No.</td><td>Height</td></tr><tr><td>1</td><td>60 m (max)</td></tr><tr><td>2</td><td>25 m</td></tr><tr><td>3,4,5,6,7 & 8</td><td>35 to 50 m</td></tr></table> The details of plantation carried out are regularly submitted to MoEF&CC. Currently the mine is not in operation	Dump No.	Height	1	60 m (max)	2	25 m	3,4,5,6,7 & 8	35 to 50 m
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v)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt 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 de-silted and maintained properly. Garland drains (size, gradient and 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.	Catch drains of appropriate size have been constructed as need basis to arrest silt and sediment flows from OB dumps & drainage has also been provided in OB benches and coal benches to carry silt and sediments into the mine sump provided at the floor of the seam. The catch drains around embankment has already been constructed. The total length is about 4000m and the dimensions of catch drain are 3.0mx1.50 mtrs. Mine having two sectors, one sector having sump of dimension 800x60x4 and 2 nd sump is of dimension 500mx30mx4m which is adequate to deal with peak sudden rainfall. The sump provides adequate settlement time for suspended particles. Currently the mine is not in operation								

vi)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	The silt and sediments gets accumulated in the catch drain during monsoon. And these catch drains are desilted, cleaned as needed for proper drainage and arresting silts.. As such separate retaining wall is not required. Currently the mine is not in operation																			
vii)	Drills should be wet operated only	The mining activity has been discontinued since May 2017																			
viii)	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	The mining activity has been discontinued since May 2017																			
ix)	High efficiency bag filter/water sprinkling system to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc shall be installed and operated effectively at all times of operation.	CHP having water sprinkler system to check fugitive emissions from crushing operations, conveyor system, transfer points etc operated effectively at all times of operation. At present the CHP is being utilized & operated by Junad OCM, WNA, WCL.																			
x)	An area not less than 213.50 Ha shall be brought under a forestation which includes reclaimed external OB dump (106 Ha), back filled area (30.00 Ha) along ML boundary, along roads and infrastructure green belt (77.50 Ha) embankment, and undisturbed / vacant area, and township located outside the lease by planting native species in consultation with the local DFO/ Agriculture Department .The density of the trees should be around 2500 plants per Ha.	<div>Area under plants , as follows-</div> <table><tr><th>Location</th><th>No. of Plants</th><th>Area (Ha)</th><th>Species</th></tr><tr><td>Embankment & OB Dumps</td><td>164550</td><td>65.86</td><td rowspan="2">Bamboo, Siwan, Khair, Gulmohar, Sagwan, Sicco, Karanj, Neem etc.</td></tr><tr><td>Avenue</td><td>6350</td><td>2.54</td></tr><tr><td>Waste Land/ Vacant Land</td><td>175500</td><td>70.20</td><td></td></tr><tr><td>Total</td><td>346400</td><td>138.56</td><td></td></tr></table>	Location	No. of Plants	Area (Ha)	Species	Embankment & OB Dumps	164550	65.86	Bamboo, Siwan, Khair, Gulmohar, Sagwan, Sicco, Karanj, Neem etc.	Avenue	6350	2.54	Waste Land/ Vacant Land	175500	70.20		Total	346400	138.56	
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xi)	A progressive mine closure plan shall be implemented by reclamation of quarry area of which 30 ha shall be back filled and afforested by planting native plant species in consultation with the local DFO/ Agriculture Department. The density of the tree should be around 2500 plants per Ha. The balance 84.00 ha of decoaled voids which are being converted into a water reservoir, shall be gently sloped along the upper benches, terraced and reclaimed with plantation. The outer periphery of the water body shall be fenced.	Agreed,																			
xii)	The company shall obtain prior approval of CGWA/CGWB Regional office for use of ground water for mining operations.	Ground water is not being used for mining purpose.																			
xiii)	Besides carrying out regular periodic health checkup of their workers, 10%of the workers identified from work force engaged in inactive mining operations shall be subjected to health check up for	It is being implemented as per schedule																			

	occupational disease and hearing impairment, if any through an agency such as NIOH, Ahmadabad within period of two years and the results reported to this Ministry and to DGMS.	
xiv)	A final mine closure plan along with details of corpus Fund should be submitted immediately upon receipt of EC to the ministry of Environment & Forest RO, Bhopal for approval.	Mine closure plan has been prepared and duly approved by WCL Board. The corpus fund has been deposited in following escrow account: Bank & Branch : Oriental Bank of Commerce, Jaripatka, Nagpur Escrow Acc. No. : 08973161009460 (Renewed) Balance as on 31.03.2023 : Rs. 536059071.1
xv)	Consent to operate shall be obtained before expanding mining operations in the additional lease area and for the enhanced rated capacity.	At present Consent to operate has been granted by MPCB vide Consent Order No RED/L.S.I (R35)No:- Format1.0/CC/UAN No.0000134650/CR/2212000807 date 13.12.2022 valid upto 30.04.2024 (copy is enclosed with this report) Currently the mine is not in operation. The mining activity has been discontinued since May 2017


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 & Forests.	No change in mining technology & scope has been made.																		
ii).	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	<div>Noted.</div> <div>The year wise production data are as follows :</div> <table><tr><th>Year</th><th>Coal Production (tons)</th></tr><tr><td>2015-16</td><td>507015.00</td></tr><tr><td>2016-17</td><td>360021.00</td></tr><tr><td>2017-18</td><td>322.00</td></tr><tr><td>2018-19</td><td>0.00</td></tr><tr><td>2019-20</td><td>0.00</td></tr><tr><td>2020-21</td><td>0.00</td></tr><tr><td>2021-22</td><td>0.00</td></tr><tr><td>2022-23</td><td>0.00</td></tr></table>	Year	Coal Production (tons)	2015-16	507015.00	2016-17	360021.00	2017-18	322.00	2018-19	0.00	2019-20	0.00	2020-21	0.00	2021-22	0.00	2022-23	0.00
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iii).	Four ambient air quality stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets in consultations with the State Pollution Control Board.	<div>Following four ambient air quality monitoring stations have been established in the core zone and buffer zone for PM10, PM2.5 SO2 and NOx monitoring:-</div> <div>1. SAM Office (W_NPOA -1)</div> <div>2. Water Filter plant-PragatiNagar (W_NPOA -2</div> <div>3. Workshop (WNPOA -3)</div> <div>4. Boregaon Village - (WNPOA -4)</div> <div>These stations are also shown on the enclosed plan.</div> <div>Reports are submitted regularly. Environmental Monitoring reports from Oct 2022 to March</div>																		

		2023 are enclosed with this report.
iv)	Fugitive dust emissions (SPM & RPM) from all the sources should be controlled regularly monitored and data recorded properly, water spraying arrangement on haul roads, wagon loading, trucks, (loading & unloading) point should be provided and properly maintained.	Fugitive dust emissions (PM10 and PM 2.5) is being monitored at following locations: 1. Weigh bridge(W _N POF -1), 2. CHP(W _N POF -1) Fugitive emission of dust is being controlled in the following manner. External OB Dump - Through dump plantation. Roads - Through mobile tanker, Road sweeping & brooming.
v).	Data on Ambient air quality (RPM, SPM, SO ₂ , NO _x) should be regularly submitted to the Ministry including its Regional office at Bhopal and to the SPCB/CPCB once in a six months.	Data on ambient air quality (TPM, PM 10, NO _x , SO _x and PM 2.5) is regularly submitted to MoEF&CC & its Regional Office at Nagpur along with six monthly report on compliance of EC conditions. Environmental Monitoring reports from Oct. 2022 to March 2023 are enclosed with this report.
vi).	Adequate measures should be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc should be provided with ear plugs/ muffs.	HEMM and noise making machines are maintained regularly. Workers engaged in operation of HEMM are provided with ear plugs. Regular monitoring of noise level is being conducted regularly. Noise Monitoring reports from Oct 2022 to March 2023 are enclosed with this report. Noise Quality Monitoring Station. 1) Near Manager Office : W _N PON-1 2) Colony (Bhalar) : W _N PON-2
vii).	Industrial waste water (workshop and waste water from Mine) should be properly collected ,treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st Dec 1993 or as amended from time to time, before discharge Oil & grease trap should be installed before discharge of workshop effluents.	The mine water after initial sedimentation in the mine sump is pumped out to the surface sedimentation tank (size of 14.20m x 7.15m x 1.50m). After sedimentation this is used for fire fighting, spraying on the haul road etc. workshop ETP (capacity 0.1 MLD) exists for industrial waste water treatment. It is worth here to mention that the mining activity in this mine has been discontinued since May 2017
viii).	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting and mineral should be covered with tarpaulin and optimally loaded.	Vehicular emissions are kept under control. Vehicle being used for coal transportation are covered with tarpaulin and optimally loaded. All the vehicles which are directly or indirectly related to the mining activity are having valid PUC Certificate from the authorized agencies. It is worth here to mention that the mining activity in this mine has been discontinued since May 2017
ix).	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	Monitoring of environmental quality parameters is being carried out by RI-IV Nagpur, CMPDIL. A fully fledged Environmental laboratory (An ISO 9001:2015 certified) and NABL accredited is already existing at CMPDI, Nagpur with qualified Engineers along with adequate number of field staff for carrying out all the environmental


x).	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and to take corrective measure, if needed.	Persons working in dusty areas have been provided with masks, helmets, goggles, etc. They are regularly trained for safety and health aspects. Periodical medical examinations are being carried by WCL for their employee's i.e. once in 5 years.
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 Company.	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 earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhopal	The funds earmarked for environmental protection measures are not used for any other purpose. The expenditure both under capital & revenue for the current year as well as progressive is given in the Expenditure Statement. It is regularly reported to Regional Office, MoEF & CC along with Six Monthly Report.
xiii).	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the office(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Six monthly reports on compliance to environmental clearance conditions are regularly submitted to RO, MoEF&CC, Nagpur & full cooperation is being extended to them as and when they visit.
xiv).	A copy of clearance letter will be marked to concerned Panchayat/local NGO. If any from whom any suggestion/representation has been received while processing the proposal.	A copy of environmental clearance letter has been sent to concerned Sarpanch of village Panchayat.
xv).	State Pollution Control board should 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 should advertise at least in two local news papers 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 web site of the Ministry of Environment & Forests at http://envfor.nic.in	Complied.
3	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Noted.
4	Failure to comply with any of the conditions	Noted.

	mentioned above may result withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	
5	The above conditions will be enforced inter-alias, 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.


Sr. Surveyor
Pimpalgaon OCM


S.O.E. (Civil)
Kolar Pimpri-Pimpalgaon Sub
Area


Colliery Manager
Pimpalgaon OCM


Sub Area Manager
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Area