

SIX MONTHLY COMPLIANCE REPORT ON EC CONDITIONS

AS ON 01-04-2023

**CHANDA RAYATWARI COLLIERY
UNDER GROUND COAL MINE**



WESTERN COALFIELDS LIMITED
CHANDRAPUR AREA

Project: CHANDA RAYATWARI COLLIERY

**COMPLIANCE STATUS REPORT AGAINST
ENVIRONMENTAL CLEARANCE**

Ref: No. J-11015/113/2006.IA.IIM dtd: 17.10.2006

Sl	A. Specific conditions	Compliance Status
I	All the conditions stipulated by MPCB in their NOC shall be effectively implemented.	Being implemented
ii	Mining shall not be carried in forest land for which forestry clearance has not been obtained under the provisions of FC Act, 1980.	<p>This underground mine is a taken over mine since nationalization of coal mines and is an operating mine under control of WCL since 1/11/1975. The lease area of 194.30 Ha. was inherited by WCL for 30 years i.e. up to 31.10.2005 by virtue of nationalization which includes 17.95 ha of forest land of Zudpi Jungle involved in the above lease before enactment of FC Act, 1980. As such, the underground mining activities with hydraulic sand stowing have been done. Mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.</p> <p>The application for renewal of forest land clearance under FC Act, 1980 has also been made vide our letter dated 27/29-07-2004. All these details have already been incorporated at page 47 to 48 in the EIA/EMP.</p>
iii	Mining shall be carried out as per statute at a safe distance from the river and Nallah flowing within the lease boundary. At the time of depillaring, protective bunds and garland drains shall be provided so that no water from the surface enters the subsidence area and the shaft.	<u>Mining operation has been done as per statute & permission granted by DGMS.</u> Presently mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.
Iv	While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the 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.	There is no overlying seam at CRC. There is only one seam as such this situation is not applicable in this particular mine.
v.	Sufficient coal pillars shall be left un-extracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	Sufficient coal pillar had been left un extracted around the airshaft as per statute.
vi.	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	<u>Mining operations has been carried out as per permission of DGMS under Reg. 105 of CMR-1957.</u> Presently mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.
vii	No depillaring operation shall be carried out below the roads and village area found within the lease.	Depillaring operation is being carried out as per permission of Director General of Mines Safety under Coal Mines Regulations 1957. Presently mine is closed.
viii	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surrounds should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil/suitable material.	<u>Regular monitoring is being done as per the permission of depillaring granted by DGMS in line with the provisions of Coal Mines Regulation-1957 and related Technical Circulars of DGMS.</u> Presently mine is closed from surface on 29.06.2019 .

ix	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas 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 sites. Sump capacity should also provide for adequate retention period to allow proper settling of silt material.	Mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.
X	Crushers at the CHP should be operated with high efficiency bag filters and water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points etc.	Chanda Rayatwari Colliery is closed. Crusher is provided at CHP to crush coal received from other mines of Chandrapur Area and adequate water spraying system is provided to suppress the dust.
xi	Drills should be wet operated only.	N.A.
xii	Controlled blasting should be practiced with use of delay detonators	N.A.
xiii	A time-bound action plan for afforestation shall be prepared for implementation for area along ML boundary, along roads, vacant land and area in township by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	The maximum land available is covered with plants and trees.
xiv	The company shall obtain approval of CGWA/CGWB Regional Office for use of ground water if any, for mining operations.	Applied for permission to dewater ground water for Chanda Rayatwari Colliery U/G mine Vide Application No. 21-4/7844/MH/MIN/2022 Dtd. 30.03.2022 at CGWA Portal.
xv	The company shall identify sites for construction of water harvesting structures for augmentation of ground water resource in consultation with the Panchayats of the village(s) in the affected areas and shall complete their construction within an agreed time frame.	Mine is closed from surface on 29.06 2019 and final mine closure activities are in progress.
xvi	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new piezo meters. The monitoring for quantity should 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 should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	Regular monitoring of ground water level and quality is done in the buffer area of the mine through a network of observation wells as prescribed. Report of the same is regularly submitted to CGWA and MOEFCC
xvii	The project authorities should meet, water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	N.A.
xviii	ETP should be provided for workshop and CHP waste water.	Mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.
xix	Besides carrying out regular periodical 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 agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.	WCL is having occupational health committee at the corporate (HQ) level as well as at the unit (Area/Project level). At corporate level, the committee consists of the following : <ul style="list-style-type: none"> • Chief General Manager (Safety) • Chief of Medical Services • Periodical Medical Examination (PME) Incharge of HQ.

	<p>The committee scrutinizes the report of the area every quarter.</p> <p>At Unit level, the committee consists of the following –</p> <ul style="list-style-type: none"> • General Manager (Operations) • Area Medical Officer • Area Safety Officer • Periodical Medical examination (PME) Incharge of Area. <p>The above committee takes the review at area level every month. There are 11 hospitals having PME centres in the hospitals. The PME Centres are well equipped with Spirometry (Lung Function test), Audiometry (for testing hearing impairment) along with the facilities for X – Ray & other bio – Chemical tests.</p> <p>The details are as follows :</p> <p>Periodical Medical examination (PME) Centres 11 (Occupational Health Centres)</p> <ul style="list-style-type: none"> • Nos.of Doctors engaged in periodical medical Exam. 11 • Nos of Doctors trained in periodical medical Exam. 22 • Nos.of X – Ray machines (300 mA) 09 • Nos. of X – Ray machines (500 mA) 02 • Nos of ILO film tests 10 • Nos of Audiometer units 07 (4 units are under process of procurement) • Nos.of Spirometer units 08 (3 units are under process of procurement) • Nos.of Pathology Labs 11 • Nos.of X- ray technicians 14 • Nos.of Laboratory Technicians 22 <p>All the PME Centres are fully computerized.</p> <p>As per the statute/Mines Act,1952, all the workers are examined every five years and the disease profile is maintained in PME centres in different colour codes as given below :</p> <ul style="list-style-type: none"> • Yellow card - Hypertension • Green card - Diabetes • Red card - Ischaemic Heart Disease <p>The pneumoconiosis cases are also followed up regularly by the PME Centres. Recently WCL has started PME every two and half years for underground workers between the age group of 50 to 60 years.</p> <p>The mineworkers who have been detected with hypertension or diabetes or Ischaemic heart disease, the records of those workers are well maintained and they are advised to attend OPD regularly. Attendants of the patient are also advised to take care regarding the diet and medication of the patient.</p> <p>Workers exposed to high decibel machineries i.e. more than 90 decibels and are found to have developed hearing impairment, are subjected to repeated audiometric tests. Chronic obstructive Pulmonary disease cases are followed by regular Pulmonary functions tests.</p> <p>In suitable cases, as per the recommendation of the Apex medical Board, the change of job is also suggested and implemented accordingly.</p> <p>In addition, the Welfare Board of WCL time to time make</p>
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		<p>visits to different area hospitals & PME Centres so as to take stock of the ground realities.</p> <p>WCL is one of the nominee in the Governing Body of the National Institute of Miners Health (NIMH). An autonomous institute under Ministry of Coal & Mines, Govt. of India, Nagpur.</p> <p>Recently, NIMH has asked WCL for intervention study in coalmines of WCL.</p> <p>WCL has already given consent to NIMH regarding carrying out the above-mentioned study.</p> <p>The subject work by NIMH has already been started in two mines of WCL. The workers, those are detected having lung diseases and hearing impairment, they are kept on constant monitoring & supervision under physicians and they are advised for periodical checkups and necessary Pulmonary function tests & Audiometry tests are done time to time.</p> <p>NIMH is also going to help WCL in such cases. As such, help from organization such as NIOH may not be required at present.</p> <p>As such, it is requested to waive of the condition of carrying out occupational survey through NIOH, Ahmedabad.</p> <p>This matter has already been taken up with MOEF vide letter no. WCL/HQ/ENV/3-B/1186 Dated : 19.10.2006</p>
xx	Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MOEF and its regional office at Bhopal.	This work is awarded to CMPDI by WCL HQ. The latest copy of survey report is available at : http://www.westerncoal.in/images/Wardha valley CF 2 019.pdf
xxi	A final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests of final mine closure for approval.	Final Mine closure plan shall be submitted to MOEF, 5 years before actual closure.
xxii	No mining operation shall be under taken until consent to operate is revalidated from SPCB.	Consent to Operate has been revalidated by MPCB on 22.07.2022 up to 31.12.2022 . vide Consent No :- format 1.0 / APAEA Section / UAN No. MPCB- CONSENT-0000127902/CR/2207001132 Dt. 22.07.2022.

Sl	B. General 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.	Noted
ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Mine is closed from surface on 29.06.2019 and final mine closure activities are in progress.
iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the bluffer zone for SPM, RPM, SO2 and Nox monitoring,. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	<p>Monitoring stations have been established in consultation with MPCB.</p> <ol style="list-style-type: none"> 1. Manager Office (Mahakali U/G) 2. Sub Station – CRC 3. Colony 4. Jatwara Milk Scheme.

iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled, regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.	This underground mine is closed. As such, only source of fugitive emission is during coal transportation by trucks from other units. <u>Water spraying arrangements along road and wagon loading is provided and maintained.</u>
v)	Data on ambient air quality (SPM, RPM, SO ₂ and NO _x) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six Months.	Data on ambient air quality is regularly submitted to MPCB & MOEF. Monitoring report Sept.2022 to March 2023. Is enclosed.
vi)	Adequate measures should 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 should be provided with ear plugs/muffs.	This Under Ground Mine is closed from surface on 29.06. 2019. Final mine closure activities are in progress
vii)	Industrial wastewater (workshop and wastewater from the 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 December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	This Under Ground Mine is presently closed from surface on 29.06 2019. Final mine closure activities are in progress.
viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicular used for transporting the mineral should be covered with tarpaulins and optimally loaded.	This Under Ground Mine is closed from surface on 29.06. 2019. Final mine closure activities are in progress
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.	It exists at CMPDIL, Nagpur and monitoring is entirely carried out by this institution.
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 programme of the workers should be undertaken periodically to observe any contraindications due to exposure to dust and to take corrective measures, if needed.	N.A (This Under Ground Mine is closed from surface on 29.06 2019. Final mine closure activities are in progress.)
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.	At project level Env. Management Cell is headed by Sub Area Manager and is directly assisted by Project Nodal Officer. At Area level the C.G.M. heads the cell assisted by Area Nodal Officer (Env.). At WCL HQ/Corporate level HOD (Env.) heads the Env. Deptt. assisted by multi disciplinary team of qualified and trained engineers.
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 this Ministry and its Regional Office at Bhopal.	Separate fund for environmental protection measure is being kept in separate account and year wise expenditure is being reported to the Ministry and its Regional Office at Bhopal.
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

Xiv	A copy of the environmental clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	Complied
Xv	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tehsildar's office for 30 days.	Noted.
Xvi	The Project authorities should advertise at lease 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 at http://envfor.nic.in .	Complied.

3	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted
4	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
5	The above conditions will be enforced <i>inter-alia</i> , 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


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