



WESTERN COALFIELDS LIMITED
(A Govt. of India Enterprise)
OFFICE OF THE AGENT
NEWTON-EKLEHRA SUB AREA
PENCH AREA, PO: Parasia- 480441
District: Chhindwara, (Madhya Pradesh)

WCL/Pench/N-ESA/SAM/2024/933

Date:- 13-11-2024

To,

1. Regional Officer
Integrated Regional Office (Bhopal)
MOEF&CC,
Kendriya Paryavaran Bhavan,
Link Road No-03, E-5, Ravi Shankar
Nagar, Bhopal-462016 (M.P.)

2. Director (Monitoring Cell),
MOEF&CC,
Indira Paryavaran Bhavan,
Jorbag Road, Aligunj
New Delhi -110003

Subject: Submission of Six-Monthly EC Compliance Report of Mahadeopuri UG mine for production capacity 0.25 MTPA (in area of 172.87 Ha) for the period 1st April 2024 to 30th September 2024.

Ref:- J-11015/434/2006-IA.II(M), Date-17.04.2007

Respected sir,

In reference to the above subject, please find enclosed herewith Six-Monthly EC Compliance Report of Mahadeopuri UG Mine of Pench Area. WCL for the period 1st April 2024 to 30th September 2024 for Kind perusal.

The report is being submitted through email and also uploaded on the portal Parivesh 2.0.

Project Proponent/SAM
Mahadeopuri UG Mine
Newton-Eklehra Sub-Area

Six Monthly Compliance Report of Environmental Clearance

MAHADEOPURI UNDERGROUND MINE

[0.25 MTPA in Area of 172.87 HA]

EC No.: J-11015/434/2006-IA.II(M), Date-17.04.2007



Western Coalfields Limited

Pench Area

Po: Parasia, Chhindwara (MP)- 480441

PERIOD: 01.04.2024 to 30.09.2024

EC Compliance Report

EC Compliance Report
EC Letter No.- J-11015/434/2006-IA.II(M) Date.17.05.2007

S.N.	CONDITIONS	COMPLIANCES
1.	Regular monitoring of subsidence movement on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation structures, roads, and surroundings 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.	Subsidence monitoring at surface over the depillared panel/area is being done regularly on quarterly basis as per the guidelines of DGMS. No major subsidence movement on surface over and around the working areas. Corrective measures will be taken to fill cracks, if any.
2.	Garland drain (size, gradient & length around the safety areas such as mineshaft and low-lying areas and sump capacity should be designed keeping 50% safety margin discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material.	All precautions under coal mines regulations 1957 have been taken to protect mine entries or low lying areas from danger of inundations. Garland drains around the mine at the surface has been constructed in order to prevent entry of water into the mine. There is sufficient capacity of underground sump to allow adequate settling time for silt.
3.	Water sprinkling systems should be provided to check fugitive emissions from loading operations, conveyor system, haulage roads, and transfer points etc.	Water sprinkling system has been provided to check fugitive emissions from loading operations, haulage road, transfer points and coal stock yard.
4.	Drills should be wet operated only.	Drilling operations in underground mining are carried out under wet conditions as per Coal Mines Regulations.
5.	Blasting should be practiced with use of delay detonators.	Blasting operations are carried out at small scale and as per permission of D.G.M.S with delay detonators.
6.	A progressive afforestation plan shall be prepared and implemented for the undisturbed area and shall include 3 ha brought under green belt development, areas along roads, along ML boundary, township outside the lease area etc. by planting native plant species in consultation with the local DFO/ Agriculture department. The density of the trees should be around 2500 plants per ha.	10000 nos. of plantations have been be carried out by state owned Madhya Pradesh Rajya Van Viskas Nigam with their expertise. There is no room available within mine for further plantation. However, the mine is surrounded by forest with high density plantation.
7.	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers. 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.	Regular Monitoring of ground water level and quality through the network of existing wells and peizometer is being done by a NABL accredited agency. Ground water level are monitored four times a year in pre monsoon (May) Monsoon (August), Post Monsoon (November) and winter (January) seasons and for quality in May.

	(November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the MOEF & CGWB Regional Office quarterly within one month of monitoring.	Monitoring data thus collected is submitted to MoEF&CC, CGWB Regional Office quarterly within one month of monitoring.
8.	The Company shall put artificial groundwater recharge measures for augmentation of groundwater resource. The project authorities should meet water requirement of nearby village (S) in case the village wells go dry due to dewatering of the mine.	Ground water level of nearby wells is being monitored regularly and there is no significant decline in water level. As a measure for augmentation of ground water, a rooftop rainwater ground recharge system has been installed at near guesthouse building. Further, additional measures will be taken for augmentation of ground water resources, if required.
9.	Besides carrying out periodic health check up of their workers, 10 % of the workers identified from the work force engaged in active mining operations shall be subjected to health check up for occupational diseases and hearing impairment, if any, through as agency such as NIOH, Ahmadabad with in a period and the results reported to this Ministry and to DGMS.	Noted. Periodic health check up for all workman in carried out once in every 5 years and for workers above 50 years of age, the same is carried out once in 2 ½ years. WCL has full-fledged occupational health surveillance system of qualified doctors. The programmed is carried out as per statute, as such separate monitoring through NIOH is not required.
10.	For monitoring land use pattern and for post mining land use, a time series of land use maps. Based on satellite imagery (a scale of 1:5000) of the 4 core zone and buffer zone, from the start of the projects until end of the life shall be prepared once in 3 years (for any particular season which is consistent in the time series) and the report submitted to MOEF and its Regional office at Bhopal.	Not applicable, as it is an underground mine there is no change in land use pattern post mining.
11.	A final mine closure plan along with details of Corpus Fund should be submitted to Environment & Forests 5 years in advance of final mine closure for approval.	Noted.
12.	Consent to operate shall be obtained before starting mining operations after fulfillment of the conditions imposed in NOC.	Mine is already running one and consented by MPPCB up to 30.04.2025.

B. GENERAL CONDITIONS: -

S.N.	CONDITIONS	COMPLIANCE
1.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	No changes in mining technology and scope of working have been made nor it is proposed in future.
2.	No change in the calendar plan including	No change in the calendar plan including

	excavation quantum of mine out coal and waste should be made.	excavation, quantum of mineral coal and waste has been made nor it is proposed.
3.	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _X & CO monitoring location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultations with the state Pollution Control Board.	Ambient air quality monitoring stations have been established to monitor PM ₁₀ , PM _{2.5} , SO ₂ , NO _X & CO monitoring is being done as per environment protection (Amendment) Rules 2000. All parameters have been found to be well within the permissible limits.
4.	Data on ambient air quality (RPM, SPM, SO ₂ , NO _X & CO) should be regularly submitted to the Ministry including its regional office at Bhopal and the state pollution Control Board/ Central Pollution Control Board once in six months.	Monitoring data thus generated are being sent to IRO MoEF&CC and MPPCB along with six-monthly reports.
5.	Fugitive dust emissions from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangements on haul roads, wagon loading dump truck, (loading & unloading) should be provided and properly maintained.	This is an underground mine and there is a little chance of fugitive dust emission since no haul road, OB dumping and wagon loading is involved. However, water sprinkling system has been installed at loading points, transfer points and coal stock yard to control dust emission.
6.	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.	Adequate measures like development of green belts are being taken up to control the noise level below the permissible limit in the work environment. This is an underground mine; hence operation of HEMM is not involved.
7.	Industrial waste water (Workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31 st December, 1993 or as amended from time to time, oil & grease trap should be installed before discharge of workshop effluents.	Not applicable, There is no workshop at mine premises.
8.	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting and mineral should be covered with tarpaulin and optimally loaded.	Vehicles are being used for transporting minerals, covered with tarpaulin and optimally loaded. PUCs certificate are checked regularly.
9.	Environmental laboratory should be established with adequate number and type of	An Environmental laboratory has been established at CMPDIL, RI-IV Nagpur which

	pollution monitoring and analysis equipment in consultation with the state pollution control Board.	is having adequate number and type of pollution monitoring and analysis equipments.
10.	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 surveillances program of the workers should be undertaken periodically to observe any contradictions due to exposure to coal dust and take corrective measures, if needed	Personnel working in dusty areas are being provided with Protective devices and persons using them are adequately trained and informed on safety and health aspects from time to time. Periodic health check up for all workman in carried out once in every 5 years and for workers above 50 years of age, the same is carried out once in 2 ½ years.
11	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 Management Cell exists At project level- Nodal officer of Environment, headed by sub area Manager. At area level- Area Nodal officer of Environment, headed by Area General Manager. At Company Headquarters- General Manager (Environment) with a team of the Engineers of multidisciplinary subjects and reports directly to the Head of the Company.
12	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.	Noted and agreed for compliance. No fund is being diverted from Environment head.
13	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 officer (S) of the Regional office by furnishing the requisite data/ information/ monitoring reports.	Full cooperation is extended to the officers of MoEF&CC Regional office, Bhopal and requisite information, data etc. is provided as and when required.
14	A copy of clearance letter will be marked to concerned panchayat/ local NGO. If any from whom and suggestion/representation has been received while processing the proposal.	A copy of the clearance letter has been forwarded to the Khamra Village panchayat.

15	State pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar office for 30 days.	This is related to state Pollution control Board.
16	The Project Authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned I within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter also be seen at web site of the Ministry of Environment & Forests at http://nic.in	Advertisement have been given in two local newspapers namely as under (Copies enclosed) 1. The Hitavada on Dated. 1.6.2006 2. Jabalpur Express on Dated. 1.6.2006
3.0	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 and agreed.
4.0	Failure to comply with any of the conditions mentioned above may result withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Noted and agreed.
5.0	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 and agreed.

Six Monthly Report

Western Coalfields Limited
Pench Area
SIX MONTHLY REPORT
PERIOD: 01.04.2024 to 30.09.2024

PART-I

1.	Name of the Project	Mahadeopuri Underground Mine
2.	Location & Address	Sub Area Manager/ Agent Newton-Eklehra Sub Area, WCL, Pench Area P.O.-Parasia, Distt. -Chhindwara (M.P.) Pin-480441
3.	Environment Clearance no. & date	J-11015/434/2006-IA.II(M) dated 17 th May 2007
4.	Period of status report	01.04.2024 to 30.09.2024
5.	Date of submission of last report	01.06.2024
6.	Year of Commencement of project work	Production started on March 1989

STATUS OF LAND:

Type of land	As per EMP (in Ha)	ACTUAL AREA ACQUIRED (IN HA)
Forest	170.00	170.00
GOVT. Land	2.87	2.87
Total	172.87	172.87

STATUS OF LEGAL COMPLIANCE

Consent to Establish (CTE)	Permission granted by MPPCB.
Consent to Operate (CTO)	Consent No. AW-57557 dt.10.02.2023, Valid up to 30.04.2025
Environment Statement	Environment Statement for 2023-24 has been uploaded on XGN portal.
Forest Clearance	Forest clearance letter received vide letter No. F-5/53/87/10/3/89, dated 13.01.1989

PART-II

AIR POLLUTION CONTROL

STATUS OF ENVIRONMENT

A	No. of Ambient Air Monitoring Station	FOUR			
B	Name of Locations	PM10	PM 2.5	NOX	SO2
	1. Manager Office 2. Parasia Guest House 3. Colony 4. Lamp Room	enclosed	enclosed	enclosed	enclosed
C	** Ambient Air Quality/Station for the parameters prescribed by State Pollution Control Board.	Manager Office Parasia Guest House Lamp room (Ganapati) Colony	- - - -	PMUA-1 PMUA-2 PMUA-3 PMUA-4	

** Detailed report of sampling & Analysis of Ambient Air quality as per the Statute of Standard & by Approved laboratory.

WATER POLLUTION CONTROL

A	No. of stations and frequency of monitoring	01 (fortnightly basis)				
B	Description of Locations	Mine water discharge				
C	Average concentration of major pollutants prescribed by State Pollution Control Board/Environment protection Amendment Rule 2000	PH	COD	DO	TSS	O/G
		Enclosed	enclosed	enclosed	enclosed	enclosed
D	Quantity of effluent discharge to local water course from each course (in m3/day)	Dry season nil		Wet Season nil		

** Detailed report of sampling & Analysis of Effluent Water quality as per the Statute of Standard & by Approved laboratory.

NOISE POLLUTION CONTROL

A	No. of Noise monitoring station	02 No.	
B	* Description of location and db(A) values	Day-dB (A)	Night-dB(A)
1	Location near Fan house	enclosed	enclosed
2	Location Colony	enclosed	enclosed
	Noise level standard as per environment (protection) Amendment Rules 2000.	--	---

** Detailed report of sampling & Analysis of Noise level as per the Statute of Standard & by Approved laboratory.

PART – III**STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP**

S.N	Particulars	As per EMP		2024-25
1.	Area Excavated (Ha)	Not applicable as Mahadeopuri U/G Mine is operated under ground.		
2.	Top soil removed (MM ³)			
3.	Overburden Removed (MM ³)			
4.	Overburden Backfilled (MM ³)			
5.	Overburden Duped (MM ³)			
6.	Area removed for physical reclamation			
7.	Area reclaimed biologically			
8.	Annual Production Actual (in Million Te) Target (in Million Te)	250,000 tonne		32490 (Million Te) 32700 (Million Te)

AFFORESTATION

S.N	LOCATION	Current Year (2023-24)	Progressive
1.	OB Dumps & Embankment (Proposed)	NA Since UG Mine	NA Since UG Mine
2.	Safety Zone		
3.	Back filled areas		
4.	Other Areas (Plain)		
	TOTAL	nil	10000 Nos.
	Area under Plantation	nil	4 Ha.
	No. of Plants per Ha.	2500 Nos. per Ha	2500 Nos. per Ha

- Species planted Eucalyptus, Cassia, Glacca, Silva, Silver, Oak, Khair-karaj, Sissue etc.

REHABILITATION & RESETTLEMENT

1.	Project effected population/families	There is no rehabilitation and escapement for the project
2.	No. of Houses lost	Nil
3.	Compensation paid to acquired land	
4.	Compensation paid in lieu of employment (2) land owners	
5.	Employment given to land ousters	
6.	Families effected	Nil
7.	Organization set up at Project level (Name & Designation of personal to be given)	1. Shri A.K. Mishra, Sub Area Manager, Newton Sub-Area 2. Shri P.K. Sahani, Mine Manager, Mahadeopuri UG Mine

EXPENDITURE STATEMENT:

S.N.	HEADS	2023-24	Progressive (Since 2016-17)
1.	Plantation/Green belt development	Nil	Nil
2.	Environment Monitoring/Auditing	22,99,218	22,99,218 (since 2022-23)
3.	Subsidence Management/ Crack Filling	Nil	8,11,634
4.	Socio Economies welfare measures.	Nil	Nil
5.	Others: a. CTE/CTO fee b. Water-Cess c. Environment statement	6,92,000 Nil Nil	21,28,425
6.	Miscellaneous pollution Control Measures.	Nil	5,78,295
	TOTAL	29,91,218	58,17,572

*Expenditure will be updated annually, at the end of FY.

DATA SHEET

MAHADEOPURI UNDER GROUND PROJECT
MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS
MINISTRY OF ENVIRONMENT & FOREST
MONITORING REPORT
DATA SHEET

S.N.	Particulars	Details												
1.	Project type: River - Valley/Mining/Industry/Thermal	Coal Mining												
2.	Nuclear/Other(Specify)	NO												
3.	Name of the Project	Mahadeopuri Under Ground Project												
4.	Clearance Letter (S) OM No. & date Location a) Districts b) State (S) c) Location, Lat & Long	MoEF&CC OM No. J-11015/434/2006-IA.II (M) Dated. 17 May, 2007 Chhindwara Madhya Pradesh N 22°10'40" to 22°11'30" E 78°13'15" to 78°46'30"												
5.	Address for Correspondence a) Address of the Concerned Project Chief Engineer (with Pin Code & telephone /telex/fax numbers b) Address of the Executive/ Project Engineer/ Manager (with Pin code & telephone/telex/ fax numbers	1. C/o. Area General Manager, Pench Area WCL, P.O.-PARASIA Distt.-Chhindwara (M.P.) Pin. 480441 07161-220058 2. Sub Area Manager, Mahadeopuri Mine, Pench Area, WCL Mines Rescue Complex, P.O.-PARASIA Distt.-Chhindwara (M.P.) Pin. 480441 07161-220057												
6.	A). Salient Features of the Project.	i) Production Capacity : 0.25 Mty ii) Total Lease Area : 172.870ha Other (Govt. land) : 2.87 ha iii) Break up of land a) Mining Right : 172.870 ha b) Surface Right :2.87 ha iv) Work force : 319 v) Life : Nil (as per MCP) vi) Capital Outlay (Rs. In Lakhs): 0.97 cores vii) Method of Mining: Under ground Mining with Board & Pillar with Caving viii) Thickness of seam & respective depth range (m) <table border="1"> <thead> <tr> <th>Seam No.</th><th>Seam Thickness (M)</th><th>Depth Range (m)</th></tr> </thead> <tbody> <tr> <td>1 A+B</td><td>0.64</td><td>2.99 m.</td></tr> <tr> <td>1C</td><td>0.15</td><td>2.88 m</td></tr> <tr> <td>II</td><td>0.34</td><td>2.89</td></tr> </tbody> </table> ix). Quality of coal : Grade D Non coking x). Net mine able reserves (Mt) : 2.912 MT xi). Balance reserves : 18.93 Mt	Seam No.	Seam Thickness (M)	Depth Range (m)	1 A+B	0.64	2.99 m.	1C	0.15	2.88 m	II	0.34	2.89
Seam No.	Seam Thickness (M)	Depth Range (m)												
1 A+B	0.64	2.99 m.												
1C	0.15	2.88 m												
II	0.34	2.89												
	b) Salient features of the	1. PH held on 23.11.2005												

	Environmental Management Plans	2. No Objection Certificate for 0.25 Mty issued by MPPCB On 10.09.2005 3. Environment Clearance for 0.21 Mty coal production issued by MoEF&CC vide letter no. J-11015/434//2006-1A.II (M) Dated 17 May 2007. 4. Plantation/Green Belt Peripheral, roads & Colony/township: 10000 progressive 5. Pollution Control Measures a) Air/Dust Pollution Control Measures Plantation along service road, vacant and, town ship industrial complex Maintenance of transport vehicles Development of green belt in between industrial complex & residential area. Noise generating machines ear plugs & helmets to the workers b) Control of ground water depletion Creation of ponds for storage of mine treated water for recharging water label. c) Disaster Management Plan: d) Progressive Mine Closure Plan: e) Monitoring & Management Organization: for smooth working and handling of environ following organization is proposed: Environmental control – 1. Area General Manager, PENCH Area 2. Nodal officer (Environment) PENCH Area 3. Project Officer, Mahadeopuri Mine 4. Staff Office (Civil) PENCH Area 5. Environmental Cell (WCL H.Q.)
7.	Break up of the Project Area a.) Submergence area: forest & non-forest b.) Others	Total: 170.00 Ha Forest land 2.87 Ha Govt. wasteland
8.	Break up the Project affected population with enumeration of those losing houses /dwelling units only agricultural land only both dwelling units & agricultural land & landless laborers/artisans a.) SC,ST,Adivasi b.) Other's (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey is carried out give details & year of survey)	Existing Mine, land already in possessing hence not applicable.
9.	Financial details	

	a.) Project cost as originally planned a subsequent revised estimates and the year of price reference. b.) Allocation made for environmental management plans with item wise and year wise break up c.) Benefit Cost/Internal rate of return and the year of assessment d.) Whether (C) includes the cost of environmental management as shown in the above e.) Actual expenditure incurred on the environmental management plans so far	Rs. 0.97 Corers Rs. 3.00/per tones of production achieved. As per approved scheme of Mahadeopuri Mine Rs. 40.64 lacs. total production X Rs, 3.00/ per tones
10.	Forest land requirement a.) The status of approval for diversion of forest land for no forestry use b.) The status of clearing/felling c.) the status of compensatory Afforestation, if any d.) Comments on the viability & sustainability of compensatory Afforestation programmer in the light of actual field experience so far	Forest clearance approved vide latter no. F-5/53/87/10/3/89, Dated 13.01.1989 Nil Nil Nil
11.	The status of clear felling in non forest areas (such as submergence area of reservoir, approach road etc) if any with quantitative information required.	Not required since this is under ground Existing mine.
12.	The Status of construction (Actual &/ or planned) a.) Date of commencement (Actual &/ or planned) b.) Date of completion (Actual & or planned)	Already commenced since 1.03.1989
13.	Reason for the delay, if the project is yet to start	No delay
14.	Dates of site visit a) date on which the project was monitored by the Regional office on previous occasions if any site visit b)Date of site visits for this monitoring report	27.04.2016
15.	Details of correspondence with project authorities for obtaining act on plans/information on status of compliance to safeguards other than the routine letters for logistic support for site visits) (The first monitoring report may contain the details of all the letters	----

	issued so far, but the later reports may cover only the letter issued subsequently.	
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