



वेस्टर्न कोलफ़िल्ड्स लिमिटेड Western Coalfields Limited

(मिनीरल कंपनी) (A Miniratna Company)

(कोल इंडिया लि. की अनुषंगी कंपनी) (A Subsidiary of Coal India Limited)

CIN-U10100MH1975GOI018626



भारत 2023 INDIA

वैश्विक कुटुंबकम्

ONE EARTH · ONE FAMILY · ONE FUTURE

क्षेत्रीय महाप्रबंधक कार्यालय, चंद्रपुर क्षेत्र / Office of Area General Manager, Chandrapur Area

पता: वेकोलि, चंद्रपुर क्षेत्र, पो. बाबुपेठ जि. चंद्रपुर, / Address: WCL, Chandrapur Area, Po- Babupeth,

महाराष्ट्र, पिन: 442403

Dist: Chandrapur, MS, Pin-442403

Email: anoenv.cha@coalindia.in

FAX:- 07172-255287

संदर्भ संख्या: वेकोलि/चक्षे/क्षेमप्र/पर्यावरण/2024-25/ 271

दिनांक: 27.06.2024

प्रति,

अतिरिक्त प्रधान मुख्य वन संरक्षक,

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,

क्षेत्रीय कार्यालय (WCZ),

भूतल, पूर्वी विंग, नया सचिवालय भवन,

सिविल लाइन्स, नागपुर- 440001

विषय: Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for **Mahakali Colliery UG Mine** of Chandrapur Area, WCL (As on 01.04.2024)

संदर्भ: EC letter No. J-11015/113/2006-IA.II(M) dtd: 02.08.2006

महोदय,

Please find enclosed herewith, Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for **Mahakali Colliery UG Mine** of Chandrapur Area, WCL (As on 01.04.2024)

This for your kind information & necessary action please.

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क्षेत्रीय केंद्रस्थ अधिकारी (पर्यावरण)

वेकोलि, चंद्रपुर क्षेत्र

संलग्न: यथोपरी

प्रतिलिपी:

1. प्रादेशिक अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, उद्योग भवन, प्रथम तल, रेलवे स्टेशन रोड चंद्रपुर 442401
2. क्षेत्रीय महाप्रबंधक, वेकोलि, चंद्रपुर क्षेत्र
3. महाप्रबंधक (पर्यावरण), वेकोलि-मुख्यालय, नागपुर
4. ऑफिस कॉपी

E M P SIX MONTHS COMPLIANCE REPORT

AS ON 01.04.2024

MAHAKALI COLLIERY UNDER GROUND COAL MINE



WESTERN COALFIELDS LIMITED

CHANDRAPUR AREA

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WESTERN COALFIELDS LIMITED
CHANDRAPUR AREA ENVIRONMENT DEPARTMENT

COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

SIX MONTHLY STATUS AS ON 01.04.2024

Environmental clearance details

- Name of Project /Area : Mahakali Colliery
W.C.L.-Chandrapur Area
- Location and Address : The Manager,
Mahakali Colliery
P.O. Babupeth,
Dist. Chandrapur
(M.S.) PIN CODE: 442403
- Expansion Production : 0.40 Million Te. /Yr.
- Total Lease Area : 404.98 Ha.
- Agricultural (Tenancy land) : 128.32 Ha.
- Govt. land : 83.47 Ha.
- Forest Land : 193.19 Ha.
- Capital Cost : Rs. 284369319.65 up to 01.04.2024
- Environmental Clearance for 0.40 Million Te./Yr. Coal production vide letter no:
J-11015/113/2006-IA.II(M), dtd. 02.08.2006
- Public Hearing Conducted on 20.10.2005.
- **Existing Consent No. Format1.0/APAE Section/UAN No.0000149308/CR/2303001249 upto 31.03.2025**

PRESENT STATUS OF PROJECT WORK

PART - I

Name of the Project	MAHAKALI COLLIERY
Location	At Mahakali Colliery P.O. Babupeth, Tehsil- Chandrapur, District- Chandrapur, Maharashtra State.
Address for correspondence	The Mine Manager, Mahakali Colliery P.O. Babupeth, Dist. Chandrapur (M.S.) PIN CODE: 442403
MoEF's Clearance No. & Date	J-11015/113/2006-IA.II(M), dtd. 02.08.2006
Period of Status Report	01.10.2023 to 31.03.2024
Date of Submission of Last Report	21/11/2023
Year of Commencement of Project work	1922

STATUS OF LAND ACQUISITION

TYPE OF LAND	REQUIRED AS PER EMP (In Hectares)	ACTUAL AREA ACQUIRED AS ON 01.04.2022 (In Hectares)
FOREST LAND	193.19	193.19
GOVT. LAND	83.47	83.47
AGRICULTURAL LAND	128.32	128.32
TOTAL	404.98	404.98

STATUS OF LEGAL COMPLIANCE:

A.	Consent under Water (Prevention & Control of Pollution) Act	Existing Consent No. Format1.0/APAE Section/UAN No. 0000149308 /CR/2303001249 Valid upto 31.03.2025
B.	Consent Fees under Water (Prevention & Control of Pollution) Act	Consent fees of Rs 75000 is paid vide NEFT Dated 29.03.2022 against Consent to operate renewal application Dated 13.03.2022 Water cess paid upto Dec-2015.
C.	Environment (Protection) Act	The project has been accorded Environmental Clearance by MOEF for 0.40 Million Te./Yr. on 02.08.2006. Environment Statement for the Year 2022-23 has been submitted online to MPCB.
D.	Forest (Conservation) Act	Applied for Forest Clearance for 193.19 Ha on 18/20.1.2005. A temporary Forest Clearance was given for one year up to 2006 and Stage I clearance has been granted vide letter No. F.No.8-34/2007-FC from MOEF & CC dated 22.06.2018. The final Forest Clearance is still pending with concerned department. (Rs. 9,68,29,280 has been paid for the same.)

PART - II

	AIR POLLUTION CONTROL	STATUS OF ENVIRONMENT
A.	No. of Ambient Air Monitoring Stations	04 Nos.
B.	* Name of the Locations	
	CMUA1 (Core Zone)	Manager's Office (Mahakali Colliery)
	CMUA2 (Buffer Zone)	Substation
	CMUA3 (Core Zone)	Colony
	CMUA4 (Buffer Zone)	Jatwara Milk Scheme
C.	** Ambient Air Quality Status for the Parameters prescribed by State Pollution Control Board.	Average 95% Time Weighted Values. Well within the permissible limit.
	CMUA ₁ : Manager's Office (Mahakali Colliery)	As seen from the Environmental Monitoring Report for months October-2023 to March-2024 the values of environmental parameters are within permissible limits.
	CMUA ₂ : Substation	
	CMUA ₃ : Colony	
	CMUA ₄ : Jatwara Milk Scheme	
	WATER POLLUTION CONTROL	STATUS OF ENVIRONMENT
A.	No. of Stations & Frequency of Monitoring	01 (Fortnightly)
B.	*Description of Locations	
	CMUW ₁	Mine Water Discharge
C.	**Average Concentrations of Major Pollutants prescribed by State Pollution control Board	As seen from the Environmental Monitoring Report for months October-2023 to March-2024 the values of environmental parameters are within permissible limits.
D.	Quantity of Effluent discharged to Local Water Course from each course (in M ³ / day)	DRY SEASON: 615 KL per day. WET SEASON: 615 KL per day.
	NOISE POLLUTION CONTROL	
A.	No. of Noise Monitoring Stations	02 No.
B.	* Description of Locations & dB (A) Value	CMUN 1 –Near Fan House CMUN 2 –Colony
C.	**Average Concentrations of Major Pollutants prescribed by State Pollution control Board	As seen from the Environmental Monitoring Report for months October-2023 to March-2024 the values of environmental parameters are within permissible limits.

- Location of the Sampling Stations has been delineated on the Working Mine Plan Enclosed as **Annexure-O**
- Detailed Report of Sampling & Analysis of Ambient Air, water and noise Quality as per the Statute of Standard & Approved Laboratory: CMPDIL'S Report for the Months April October-2023 to March-2024 are enclosed as **Annexure-N**
- Ground water level monitoring reports is enclosed as **Annexure-E**
- Environment Statement Submission details for the year 2022-23 is enclosed herewith as **Annexure- P**

PART – III

STATUS OF IMPLEMENTATION OF PROVISIONS OF EMPAS ON 01.04.2024

Sl	PARTICULARS	Current Year 01.10.23 to 31.03.24	Progressive
1	Area Excavated (Hectares)	Not applicable	Not applicable
2	Top Soil Removed (MM ³)	Do	Do
3	Overburden Removed (MM ³)	Do	Do
4	Overburden Back-filled (MM ³)	Do	Do
5	Overburden Dumped (MM ³)	Do	Do
6	Area recovered for Physical Reclamation (Hec.)	Do	Do
7	Area Reclaimed Biologically (Hectares)	Do	Do
8	Annual Production : (Coal in M. Te., OBR in MM ³) Targeted Capacity: 0.40Million T / Year Present Capacity: 0.15MillionT/Year	COAL: 00 Te. OBR: Not applicable	6.396 Million Te. Up to 31st March.- 2024

AFFORESTATION * (Nos.);

SI	LOCATION	Current Year	Progressive
1	External OB Dumps	---	---
2	Embankments	---	---
3	Safety Zone	---	---
4	Backfilled Areas	---	---
5	Other Areas	00	6030
	TOTAL	---	6030
Area under Plantation (Progressive)		2.5 Hectares.	
No. of Plants per Hectare		2,500	
Species Planted		Acacia, Shivan, Mango, Jamun, Teak, Bamboo, Gulmohar, Karanji, Sishoo, Behada, Neem.. etc.	

REHABILITATION & RESETTLEMENT

1. **COMPENSATION FOR LAND ACQUIRED** – N. A.
2. **COMPENSATION FOR HOUSES ACQUIRED** – N. A.

Reddy

Organisation set up at Project Level (Name & Designation of the Personnel to be given)	Shri N. V. Reddy, Manager(M)/Colliery Manager Mahakali Colliery.
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EXPENDITURE: CAPITAL (PROGRESSIVE as on 01.04.2024)**EXPENDITURE ON POLLUTION CONTROL MEASURES AT MAHAKALI COLLIERY as on 01.04.2024****I AIR POLLUTION****A) BLACK TOPPING OF ROADS/RCC PAVEMENT AT WEIGH BRIDGE as on 01.04.2024**

SI	Head	Current Year 01.10.23 to 31.03.24	Progressive Amount in Rs. Lakhs
1	Black Topping of road from coal bunker to ZerpatNallah (650 mtr)	NIL	34.40
2	RCC Pavement coal bunker	NIL	1.00
3	Black Topping of road near Weigh Bridge	NIL	1.50
4	Black Topping of approach road to Pratihtha Sand Bunker	NIL	1.50
	T O T A L	NIL	38.40

B)MIST SPRAY SYSTEM/FIXED SPRINKLERS INSTALLED/MOBILE TANKERS as on 01.04.2024

SI	Head	Current Year 01.10.23 to 31.03.24	Progressive Amount in Rs. Lakhs
1	Mist Spray System at CHP	NIL	1.35
2	Fixed Sprinklers at Coal Stock Yard	NIL	3.40
3	Mobile water tanker	NIL	2.42
	T O T A L	NIL	7.17

C) G.I.SHEET CLADDING OF COAL HANDLING PLANTS as on 01.04.2024


SI	Head	Current Year 01.10.23 to 31.03.24	Progressive Amount in Rs. Lakhs
1	Side Cladding of CHP	NIL	1
	T O T A L	NIL	1
	TOTAL I (A+B+C)	NIL	46.57

II WATER POLLUTION

SI	Head	Current Year 01.10.23 to 31.03.24	Progressive Amount in Rs. Lakhs
1	Treatment Plant for mine discharge	NIL	5.29
	T O T A L II	NIL	5.29
	TOTAL CAPITAL EXPENDITURE (I+II)	NIL	51.86

EXPENDITURE: REVENUE (in Rupees)m

ACCOUNT HEAD	Current Year 01.10.2023 to 31.03.2024	Progressive (Rs.)
Afforestation	NIL	2,40,561
Air Pollution Control (Including repairing of black top road from MKC CHP to CRC CHP 1.1 Km)	NIL	2,23,56,105(Approx.)
Water Pollution Control (Filter Plant)	NIL	1,98,46,898 (Approx.)
Monitoring	NIL	95,41,677(Approx.)
Legal Expenses (Consent fees)	NIL	27,71,500
Environmental Audit + Water Cess +Ground Water Extraction	NIL	86,51,885.80
Others (JVS by MPCB)	NIL	1,94,650
TOTAL	NIL	6,36,03,276.80 (Approx)


Chief Manager (M)/Colliery Manager
Mahakali Colliery

PART-IV

Project : MAHAKALI COLLIERY
Environmental Clearance : FOR COAL PRODUCTION CAPACITY OF 0.40 M Te/Yr
Ref : No. J-11015/113/2006 .IA.II dt; 2.08.2006

COMPLIANCE REPORT AGAINST ENVIRONMENTAL CLEARANCE

Sl	A. Specific conditions	Compliance Status
I	All the conditions stipulated by SPCB in their NOC shall be effectively implemented.	Conditions stipulated in the CTO are effectively implemented and compliance to those is regularly submitted. Mine operations have been discontinued since September 2021.
II	Approval for project renewal shall be obtained before expansion in production.	Mining plan has been approved in respect of Mahakali Colliery by MOC. Govt. of India vide letter No. 13016 / 18 / 2000 – CA - II Dtd. 18/10/2006. (Enclosed as Annexure-A)
III	Mining shall not be carried in forest land for which forestry clearance has not been obtained under the provisions of FC Act, 1980.	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 application for renewal of forest land clearance under FC Act, 1980 has also been made vide our letter dated 22.07.2004 against which Stage I clearance has been granted vide letter No. F.No.8-34/2007-FC from MOEF & CC dated 22.06.2018(Copy Enclosed as Annexure-C). Compliance of conditions under stage I clearance has also been submitted vide Letter No. WCL / CHA / AGM / PLG / REV / 718 Dated 21/30.05.2019. A copy of compliance submitted is enclosed as Annexure-C I. Stage –II clearance is awaited.
V	While extracting panels in the lower seam, all water bodies in the subsidence area shall be drained. Dewatering of the old goafs 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 exist at MKC. There is only one composite seam of average thickness 17.5m,as such this situation is not applicable in this particular mine. Method of working adopted in this mine is Board and pillar, in which depillaring is being done in conjunction with hydraulic sand stowing. The voids created after extraction of coal are filled with sand stowing process, resulting there is no surface subsidence has so far been observed over working area. Hence there is no chance of accumulation of water bodies over working area due to extraction of coal.
VI	Sufficient coal pillars shall be left unextracted around the air shaft (within the subsidence influence area) to protect from any damage from subsidence, if any.	At present, there are 2Nos. of air shafts are provided in this mine, one is for intake fresh air (Dia 4.8 Mts. Depth 21.02 m) and another one is for return air (Dia 3.65 Mts. Depth 19.81m). The Sufficient coal pillar of more than 15m thickness has been left unextracted around the air shafts as per statute. Moreover, entire extraction is carried out by hydraulic sand stowing. As such, there is no danger to air shaft from subsidence.
VII	Solid barriers shall be left below the roads falling within the blocks to avoid any damage to the roads.	The lease hold boundary of a mine is being crossed by Ballarpur bypass road. The minimum depth of cover below this road is about 115 m. No extraction of pillar is being carried out within and beneath 45m of Public Road as per Reg. 119 of Coal mine regulation 2017. Moreover, entire extraction is carried out in conjunction with hydraulic sand stowing. Hence no risk of damage to the road due to subsidence.

VIII	No depillaring operation shall be carried out below the roads and village area found within the lease.	<p>No extraction of pillar is being carried out within and beneath 45m of Public Road and village area as per Reg. 119 of Coal mine regulation 2017. However, Depillaring operation is being carried out with Hydraulic sand stowing by taking prior permission from DGMS under reg. 112 and Reg. 119 of Coal mine regulation 2017. Hence due to sand stowing no adverse impact on surface or damage to any road or village area has been observed. Year wise quantity of Sand stowing in last five years is as given below.</p> <table border="1" data-bbox="699 344 1391 546"> <thead> <tr> <th>Year</th> <th>Sand Stowing (m³)</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>18945.09</td> </tr> <tr> <td>2020-21</td> <td>29722.76</td> </tr> <tr> <td>2021-22</td> <td>12706.01</td> </tr> <tr> <td>2022-23</td> <td>5214.52</td> </tr> <tr> <td>2023-24</td> <td>6163.29</td> </tr> </tbody> </table>	Year	Sand Stowing (m ³)	2019-20	18945.09	2020-21	29722.76	2021-22	12706.01	2022-23	5214.52	2023-24	6163.29
Year	Sand Stowing (m ³)													
2019-20	18945.09													
2020-21	29722.76													
2021-22	12706.01													
2022-23	5214.52													
2023-24	6163.29													
IX	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.	As production of MKC has been suspended from 30.09.2021. No extraction of coal is being carried out at present. However, regular monitoring of subsidence movement on surface is being done as per CMR 2017.												
X	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.	<p>Garland drains are provided in case of opencast mine. As this is an operating underground mine, the precautions being taken to prevent the risk of inundation due to surface water as well as underground water are covered under the provision of Reg. 149&150 of Coal Mines Regulations-2017 and the relevant circulars issued by DGMS time to time . The mine openings are also at an elevation of more than 3.00 m from H.F.L (178.960 m).Hence there is no danger of inundation due to surface water</p> <p>Elevation of Mine openings:</p> <ul style="list-style-type: none"> • 182.316 m (No.1 Incline) • 184.305 m (No.2 Incline) • 182.725 m (air shaft old) • 184.361 m (air shaft new) <p>In underground, there is a main sump having capacity of 4.0 Million Gallon which is sufficient for providing adequate retention period to allow proper settling of silt material.</p>												
XI	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.	CHP not in Operation.												
XII	Drills should be wet operated only.	As indicated earlier, As production of MKC has been suspended from 30.09.2021, no drilling operation is being carried out at present.												
XIII	Controlled blasting should be practiced with the use of delay detonators .	As indicated earlier, As production of MKC has been suspended from 30.09.2021. no blasting operation is being carried out at present.												

XIV	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 hectare.	Being an underground mine there are very limited surface rights. Plantation is being done in and around dispensary, colony, road and other infrastructure. Total of 6030 Nos. of Plants have been planted which includes Ashoka, Neem, Mango, Cassia, Peepal etc. The plantation has been carried out through State Level Expert Forest Agencies.
XV	The company shall obtain approval of CGWA/CGWB Regional Office for use of ground water if any, for mining operations.	NOC from CGWA has been obtained vide CGWA/NOC/MIN/ORIG/2022/14561 dtd. 15.02.2022 valid upto 14.02.2024 Annex. D
XVI	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.	<p>Maximum mine discharge water is re-circulated into the mine itself for sand stowing purpose. The ground water level of all the wells is being regularly monitored and the water level is more or less static. Only an insignificant variation is observed during summer.</p> <p>From the above it can be inferred that there is no impact on ground water level at present due to the working of the mine under consideration. As such there are no affected areas in the vicinity, construction of water harvesting structures is not required at present.</p> <p>Still as a precautionary measure, presently a roof top rain water harvesting system is installed at Sub Area Office building and GM Office building.</p> <ol style="list-style-type: none"> 1. Sub Area Office : Roof top Area – 441 m² No. of recharge Pits – 2 Nos. 2. GM office : Roof Top Area – 1950 m² No. of recharge pits – 7 Nos.
XVII	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. 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 being done by Anacon laboratories for WCL. Report being submitted regularly. Last report submitted for the period PERIOD- DEC 2022 (POST-MONSOON), JAN-FEB -2023 (WINTER) & MAY-2023 (PRE-MONSOON) (Copy enclosed as Annexure- E)
XVIII	The project authorities should meet, water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	<p>As per Report on Monitoring of Ground Water level and Quality Analysis for the Period April-2023 to September-2023 there is no decline in water table observed. However, for meeting the needs of growing population, the project authority has taken adequate steps for supply of water to the neighboring community as detailed below :-</p> <p>The underground mine water is pumped to surface at water treatment plant which has two interconnected sedimentation tanks of capacity 75000 Gallons for primary settling and then water being treated with pressure filter of 1MLD capacity then treated water is supplied to surrounding areas. However the company has also installed 1 No. of RO plant of capacity 1000 Litre / Hour for providing drinking facility to nearby residents.</p>
XIX	Sewage treatment plant should be installed in the existing colony. ETP	Mine is operational since 1922. Colony is very old. No Space is available for construction of STP on the Surface. However, the sewage treatment in the

	should also be provided for workshop and CHP wastewater.	residential colony is carried out by already provided conventional soak pit followed by septic tank arrangement in each residential unit. There is only a pit workshop and no HEMM is there in this UG mine, as such there is no generation of effluent from workshop and hence no WETP is required. There is no CHP provided.												
XX	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.	<p>WCL is having occupational health committee at the corporate (HQ) level as well as at the unit (Area/Project level).</p> <p>At corporate level, the committee consists of the following :</p> <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>Year-wise details of PME in respect of Mahakali Colliery is as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Achieved</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>191</td> </tr> <tr> <td>2020</td> <td>242</td> </tr> <tr> <td>2021</td> <td>125</td> </tr> <tr> <td>2022</td> <td>86</td> </tr> <tr> <td>2023(Till 30th Sept. 2023)</td> <td>24</td> </tr> </tbody> </table> <p>Till date, no such incidence of occupational disease and hearing impairment has been recorded among the workers of this mine.</p>	Year	Achieved	2019	191	2020	242	2021	125	2022	86	2023(Till 30 th Sept. 2023)	24
Year	Achieved													
2019	191													
2020	242													
2021	125													
2022	86													
2023(Till 30 th Sept. 2023)	24													
XXI	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.	<p>This is an operational underground mine and activities are carried out below the ground hence Digital processing of working area is not possible.</p> <p>There are very limited surface rights for the mine.</p> <p>However, the vegetation cover mapping is done for Wardha valley coalfields as a whole by CMPDIL and excerpts for Mahakali showing land use pattern are enclosed as Annexure-F</p>												
XXIII	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.	<p>As per EC obtained in 2006 life of mine is 20 years. In respect of Mine closure plan, Escrow A/C (No.8973161002690) has been opened in year 2013 for Mahakali Colliery. Renewed A/c No. 897107600002248</p> <p>Total corpus in Escrow A/c is Rs 6,43,60,637/- (as on 31.03.2023). As per balanced extractable reserve i.e 5.942 MT. Total life of mine is 25 years. Final closure plan shall be submitted to MOEF 5 years before actual closure.</p>												
XXIV	Consent to operate shall be obtained before expanding mining operations..	Existing Consent No. Format1.0/APAE Section/UAN No. 0000149308 /CR/2303001249 Valid upto 31.03.2025 (Copy enclosed as Annexure-G)												

Sl	B. General conditions	Compliance
i)	No .Change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	No change in Mining Technology & scope of working has been made nor envisaged in future. Extraction of coal is being done by Bord and Pillar method and depillaring operation is being done in conjunction with Hydraulic sand stowing. In case, any different method of extraction is proposed, prior approval will be taken from MoEF before commencement of any operation.

ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	<p>No change in the calendar plan for quantum of mineral coal has been made nor envisaged in future. It is an underground mine, as such there is no excavation & no waste generation. This is an underground mine; coal production target is well within EC limit. EC has been granted for Coal production capacity of 0.4 MTPA and Coal production details for last 5 years is as given below:</p> <table border="1" data-bbox="678 271 1174 577"> <thead> <tr> <th>Year</th> <th>Production (Te.)</th> </tr> </thead> <tbody> <tr> <td>2018-19</td> <td>1,18,000</td> </tr> <tr> <td>2019-20</td> <td>83,000</td> </tr> <tr> <td>2020-21</td> <td>80,572.61</td> </tr> <tr> <td>2021-22</td> <td>28712.38</td> </tr> <tr> <td>2022-23</td> <td>0.00</td> </tr> <tr> <td>2023-24</td> <td>NIL (Production discontinued 30.09.2021)</td> </tr> </tbody> </table>	Year	Production (Te.)	2018-19	1,18,000	2019-20	83,000	2020-21	80,572.61	2021-22	28712.38	2022-23	0.00	2023-24	NIL (Production discontinued 30.09.2021)
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iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ 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>Four monitoring stations have been established in consultation with MPCB covering core and buffer zone.</p> <ol style="list-style-type: none"> 1) Manager Office(Mahakali U/G)- Core Zone 2) Sub Station – CRC – Buffer Zone 3) Colony – Core Zone 4) Jatwara Milk Scheme.- Buffer Zone 														
iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled and 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.	As production of Mahakali Colliery has been suspended from 30.09.2021. There are no sources of Fugitive dust emissions.														
v)	Data on ambient air quality (SPM, RPM, SO ₂ and Nox) 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 being regularly submitted to MPCB & MOEF. Latest report on Air quality for the month of March 2024 has been submitted vide email anoenv.cha@coalindia.in on dated 04.05.2024.														
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 is an underground mine, thus there is no HEMM. All machineries viz. Haulages, belt conveyors, side discharge loaders are deployed in underground. Proper lubrication of all machineries is ensured. Noise levels of underground machineries are well within permissible limit i.e 85dBA as per monitoring reports enclosed as Annexure-N and noise level control measures in underground workings are covered under Coal Mines Regulation-2017 as well as DGMS (Tech) circular 18 of 1975.														
vii)	Industrial waste water (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 is an underground mine and there is no HEMM. As such there is no workshop with washing facilities for HEMM (Pit head workshop provided with lathe machines etc.) and hence there is no question of effluent from workshop. Therefore, the issue of providing oil & grease trap for workshop effluent does not arise. Mine water discharge is allowed to settle on two interconnected sedimentation tanks of capacity 75000 gallons (341 cum) together and then treated with pressure filter of 1 MLD capacity. Treated water further supplied to nearby residents for domestic usage. The mine pumped out water is monitored every fortnight as per Environment Protection Amendment Rule, 2000.														
viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulins and optimally loaded.	As production of MKC has been suspended from 30.09.2021, there is no transportation of coal is being carried out.														
ix)	Environmental laboratory should be established with adequate number and type of pollution monitoring and	A well equipped, NABL accredited lab exists at CMPDIL, Nagpur and														

	analysis equipment in consultation with the State Pollution Control Board.	monitoring is entirely carried out by CMPDIL.														
x)	<p>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.</p> <p>Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.</p>	<p>Dust masks are provided to personnel working in dusty areas and control measures are being taken against dust generation by providing regular water spraying arrangement at the workings, and Adequate training is being imparted to worker and SOPs (Safe operating procedures) are distributed among workers giving information on safety and health aspects. Periodical medical examination is done once in five years. PME details are as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Achieved</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>191</td> </tr> <tr> <td>2020</td> <td>242</td> </tr> <tr> <td>2021</td> <td>125</td> </tr> <tr> <td>2022</td> <td>86</td> </tr> <tr> <td>2023</td> <td>24</td> </tr> <tr> <td>2024</td> <td>31</td> </tr> </tbody> </table> <p>Till date no such incidence of occupational disease and hearing impairment has been recorded.</p>	Year	Achieved	2019	191	2020	242	2021	125	2022	86	2023	24	2024	31
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2019	191															
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2021	125															
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2023	24															
2024	31															
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.	<p>At project level Env. Management Cell is headed by Sub Area Manager and is directly assisted by Project Nodal Officer [Env./Dy.M(C)].</p> <p>At Area level the A.G.M. heads the cell assisted by Area Nodal Officer (Env.).</p> <p>At Corporate level GM (Env.) heads the Env. Deptt. assisted by multi disciplinary team of qualified and trained engineers who reports directly to the Director (Technical)</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 this Ministry and its Regional Office at Bhopal.	<p>Separate fund for environmental protection measure has been kept in separate account and year wise expenditure is being reported to the Ministry.</p> <p>Yearwise details of expenditure for Mahakali Colliery is as follows:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Expenditure(Lakhs)</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>89.28</td> </tr> <tr> <td>2020-21</td> <td>76.49</td> </tr> <tr> <td>2021-22</td> <td>Nil (Mine discontinue from 30.09.2021)</td> </tr> <tr> <td>2022-23</td> <td>Nil (Mine discontinue from 30.09.2021)</td> </tr> <tr> <td>2023-24</td> <td>Nil (Mine discontinue from 30.09.2021)</td> </tr> </tbody> </table>	Year	Expenditure(Lakhs)	2019-20	89.28	2020-21	76.49	2021-22	Nil (Mine discontinue from 30.09.2021)	2022-23	Nil (Mine discontinue from 30.09.2021)	2023-24	Nil (Mine discontinue from 30.09.2021)		
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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.	Full Cooperation will be extended from project authorities for monitoring the EC compliance.														
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.	Copy of EC submitted to Panchayatwide letter no. WCL/CHA/GM/ENV/1414/1526 Dated 20/21.08.2006. (Copy enclosed as Annexure-H)														
xv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office/Tahsildar's office for 30 days.	Copy of environment clearance submitted to MPCB vide letter no. WCL/CHA/GM/ENV/1413/1523 Dated 20/21.08.2006 (Copy enclosed as Annexure-I)														
xvi)	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	Advertised in two local newspapers i.e. Dainik Hindi Mahavidharbha and Dainik Chandrapur Samachar on dated 22.08.2006 (copy enclosed as Annexure-J).														

	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 .	
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



Chief Manager (M)/ Colliery Manager
Mahakali Colliery

**MONITORING THE IMPLEMENTATION OF ENVIRONMENTAL SAFEGUARDS
MINISTRY OF ENVIRONMENT & FORESTS OFFICE(W),BHOPAL.**

MONITORING REPORT

DATA SHEET

1.	Project type :River- valley/Mining /Industry/Thermal/Nuclear/Other (Specify)	MINING
2.	Name of the Project	MAHAKALI COLLIERY
3.	Clearance letter (s)/ OM No. & date	J-11015/113/2006-IA.II(M), dtd. 02.08.2006 of Addl. Director, MoEF- NEW DELHI.
4.	Location	
	a) District	CHANDRAPUR
	b) State	MAHARASHTRA
	c) Latitude/Longitude	Latitude 19-56'-12" to 19-58'-28" N Longitude 79-18'-07" E
5.	Address for correspondence	
	a) address for Concerned Project Chief Engineer (with Pin. Code & Telephone No./telex/Fax. Numbers	AREA GENERAL MANAGER WESTERN COALFIELDS LIMITED CHANDRAPUR AREA PO:BABUPETH (MAHARASHTRA) PIN- 442403 07172- 253322..23..24..25 07172- 256715, 256124 Fax-07172-255287
	Address of Executive Project Engineer /Manager (with Pin. Code & Fax numbers)	THE MINE MANAGER MAHAKALI COLLIERY,W.C.L.-P.O. BABUPETH Dist-Chandrapur-Maharashtra
6.	Salient features of the project	Enclosed as A
7.	Break up of the project area	404.98 Ha
	a)submergence area : forest & non forest	Not Applicable
	b)others	Agricultural.....128.32 Ha. Forest Land.....193.19 Ha. <u>Govt. land</u> 83.47 Ha T O T A L 404.98 Ha
8.	Break up of the project affected population with enumeration of those losing houses/ dwelling units only, agricultural land only, both dwelling units & agricultural land & landless labourers/artisan	Not Applicable
	a)SC , ST/ ADIWASI	Not Applicable
	b)Others (Please indicate whether these figures are based Available Record on any scientific and systematic survey carried out or only provision figures, if as survey is carried out give details and years of Survey).	Not Applicable
9.	Financial details :	
	a) Project cost as originally planned and subsequent revised estimates and year of price referenc	

	b)Allocation made for environmental management plans with item wise and year wise break-up	--
	c)Benefit cost ratio/Internal Rate of Return and the year of assessment	--
	d)Whether (c) includes the cost of environmental management	--
	e)Actual expenditure incurred on the Project so far	Rs 90884078.19 up to 31.03.2024
	f)Actual expenditure incurred on the environmental management plans so far	Capital-Rs. 51,86,000(Progressive as on 31.03.2024) Revenue-Rs. 6,36,03,276.80 (Approx) (Progressive as on 31.03.2024) (Details given in Part-III)
10.	Forest land requirement:	Applied to MOEF for diversion of 193.19 Ha. of forest land for underground mining under Forest Conservation Act 1980,
	a) The status of approval for diversion of forest land for non-forestry.	NOT APPLICABLE
	b) The status of clearing felling	Rs. 9,68,29,280 has been deposited as NPV to Forest Department.
	c) The status of compensatory afforestation, if any	NOT APPLICABLE
	d)Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	NOT APPLICABLE
11.	The status of clear felling in non-forest areas (such as reservoir, approach roads), if any with quantitative information	NOT APPLICABLE
12.	Status of construction:	
	a) Date of commencement(Actual and/or planned)	1922
	b)Date of completion (Actual and /or planned)	20 years from 2006 as per EC
13.	Reasons for the delay if the project is yet to start.	Not Applicable
14	Dates of site visits	
	a)The dates on which the project was monitored by the Regional Office on previous occasions, if any.	Not Applicable
	b)Date of site visit for this monitoring report	--
15.	Details of correspondence with project authorities for obtaining action 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 letters issued subsequently)	No. 3-25/2006(ENV)/2321 dt; 19.01.2007 of Addl .Director (S) - MOEF-BHOPAL



Chief Manager (M)/ Colliery Manager
Mahakali Colliery

SALIENT FEATURES OF THE PROJECT

Name of project	:	Mahakali Colliery
Capacity of project	:	0.40 Million Te./Yr.
• Capital Investment	:	Rs. 284369319.65 up to 01.04.2024
Life of project	:	20 years from the year 2006 (As per EC)
Land Required	:	404.98 Ha.
No. of Seams/Seam thickness	:	1/17.5 m
Depth of Working (Maximum)	:	338 mtrs. BGL
Total Coal Production	:	6.397 Million Te. (Approx.)
(From 12.04.1974 to till 31.03.2023)		
Total over Burden removal	:	NA
Stripping Ratio	:	NA