# WESTERN COALFIELDS LIMITED (MINIRATNA COMPANY)

# SIX MONTHLY ENVIRONMENTAL COMPLIANCE REPORT

(From 01/04/2023 to 30/09/2023)

IN RESPECT OF

# MURPAR UNDER GROUND PROJECT

MURPAR SUB AREA UMRER AREA

# Compliance of Environmental Clearance conditions in respect of Murpar UG Project of WCL as on 30/09/2023

Ref: MOEF Environment Clearance Letter No. J-11015/25/2001-IA. II (M) dated 23/01/2018 and Amendment in EC vide Letter no: J-11015/25/2001-IA.II (M) dated 17.07.2018

## **A. Specific Conditions:**

S.No	Compliance Condition	Status
i.	Transportation of coal from face to surface shall be carried out through tarpaulin covered trucks by road/rail.	Complied.  Environmental Clearance was secured from MoEF& CC vide its letter no. J-11015/25/2001-1A. II (M) dated 23/01/2018 for capacity of 0.28 MTPA and Amendment in EC vide Letter no: J-11015/25/2001-IA.II(M) dated 17.07.2018 (Copy enclosed as Annexure: I).  Consent to Establish was obtained from the Maharashtra Pollution Control Board for the enhanced capacity of 0.28 MTPA vide consent no. BO/ JD (APC)/ TB-2/UAN No-38469/R/CC-1901002000 dtd. 28.01.2019 (Copy of CTE and Minutes of 6th CC meeting enclosed as Annexure-II).  Consent to Operate for the same was obtained from MPCB vide letter no BO/ JD (APC)/ TB-2UAN No-38469/ R/ CC1901001995 dated 28/01/2019 and consent was renewed on 22/07/2022 vide letter No. Format1.0/APAE Section/ UAN No.0000124453/ CO/2207001172 which is valid up to 31/12/2024. (Copy enclosed as Annexure: III).  Not applicable.  Production has been discontinued from 17/08/2022 since mine comes under the eco sensitive zone of Tadoba Andhari Tiger Reserve and notice of closure has been submitted to
iii.	Sufficient coal pillars shall be left unextracted around the air shaft (within	and notice of closure has been submitted to DGMS.  Not applicable.
	the subsidence influence area) to	As per gazette notification No: 2973 dated

	protect from any damage from subsidence, if any.	11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
iv.	Solid barrier shall be left below the roads falling within the block to avoid any damage to the roads and no depillaring operation shall be carried out.	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
V.	Depression due to subsidence resulting in water accumulating within the low laying areas shall be filled up or drained out by cutting drains	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
vi.	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 surroundings should be continued till movement cases 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 materials. Cracks should be effectively plugged with ballast and clay soil/suitable materials.	Not applicable.  As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
vii.	Garland surface drains (size, gradient	Complied.
	and length) around the safety areas such as mine shaft and low laying areas and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rain fall and maximum discharge in the area adjoining the mine sites. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sufficient number of pumps of adequate capacity shall be deployed to pump out mine	Garland surface drains were provided considering adequate safety margin. 5 nos of Sumps were also provided.

	water during peak rain fall.				
viii.	The company shall obtain approval of CGWA for use of groundwater for mining operations, if applicable	Complied.  NOC from CGWA has been secured for abstracting / dewatering of Ground Water (NOC No. CGWA/ NOC/ MIN/ ORIG/2022/14563) which is valid up to 14/02/2024. Copy Enclosed as Annexure-IV.			
ix.	Mitigative measures to be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient numbers of water sprinklers.	As per gazette 11/09/2019 Murpa eco sensitive zor Reserve. Mine 117/08/2022 and submitted to DGM	er UG mine cone of Tadoba nas been dis notice of clo	comes within the Andhari Tiger continued from	
X.	Continues monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	alth hazards, and For surveillance of occupations			
		*7	IME	E/PME	
		Year	Target	Achieved	
		2015	112	145	
		2016	120	128	
		2017	145	164	
		2018	150	170	
		2019	108	114	
		2020	146	66	
		2021	148	154	
		2022	94	103	

## **B. General Conditions:**

Sl.No	Compliance Condition	Status
(a)	Mining	
i.	Mining shall be carried out under	Agreed.
	strict adherence to provisions of	
	the Mines Act 1952 and	
	subordinate legislations made	
	there— under as applicable	

ii.	No change in mining method i.e UG to OC, Calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change (MoEF&CC).	Not applicable.  As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.		
iii.	Mining shall be carried out as per the approved mining plan (Including mine closure plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Agreed. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.		
iv.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standard.	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.		
V.	No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian forest act, 1927.	FC has been obtained for 680.78 ha of forest land vide F.no.8-35/2000-FC dated 01/06/2001. Total 248 ha of forest land is involved in existing Murpar UG mine. There is no additional forest land required in Phase -I of Murpar Expansion UG Mine. (Copy of FC enclosed as Annexure- V).		
(b)	Land Management and Water C	onservation		
i.	Digital survey of the entire lease hold area/ core zone using satellite remote sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/Regional Office (RO).	Digital mapping of the entire coalfield based on satellite data being done regularly once in 3 years and the same is submitted. Ministry of Environment, Forest and Climate Change regular basis.  Report on Land Use/ Vegetation cover mapping of Band, Coalfield based on Satellite data is enclosed as annexure and sar		
ii.	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations shall be prepared, considering the	Complied.  All provision regarding inrush of surface water stipulated in Coal Mines Regulations 2017 were complied during the operation of mine.		

	presence of any river/ rivulet/ pond/lake etc., with impact of mining activities on it, and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the provisions of the approved Mining Plan/EIA-EMP submitted to this Ministry and the same should be done with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.	
iii.	Post-mining land be rendered usable for agricultural/forestry purposes and shall be handed over to the respective State Government, as specified in the Guidelines for Preparations of Mine Closure Plan, issued by the Ministry of Coal dated 27 <sup>th</sup> August, 2009 and subsequent amendments.	Agreed.  The land after mining will be reclaimed as per the Mine Closure Plan which is approved by WCL Board and included along with EMP.  Mine Closure Plan was approved by the WCL Board on 10/11/2017 and an Escrow account have been opened with A/c no. 08973161002614 at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on 31/03/2023 is 8,99,13,040 INR (Including Principal and interest).
iv.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies, vegetation, structure, roads, and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measures shall be taken to avoid loss of life and materials. Cracks should be effectively plugged in with ballast and clay soil/suitable material.  A separate team for subsidence	Not applicable.  As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.  Noted for compliance.
V.	A separate team for subsidence monitoring and surface mitigation measures shall be constituted and continues	Noted for compliance.

	monitoring & implementation of mitigation measures be carried out.					
vi.	Thorough inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent in rush of water in the mine.	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.				
vii.	Native tree species be selected and planted over areas affected by subsidence.	Not Applicable.				
(c)	<b>Emissions, Effluents, and Waste</b>	Dis	posal			
i.	Transporting of coal, to the extent permitted by road, shall be carried out by covered trucks/ conveyors. Effective control measures such as regular water sprinkling/ rain gun/ mist sprinkling etc. shall be carried out in critical areas prone to air pollution with higher level of particulate matter all through the coal transport roads, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the ambient air quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board.	Complied.  Production has been discontinued from 17/08/2022 since mine comes under the eco sensitive zone of Tadoba Andhari Tiger Reserve and notice of closure has been submitted to DGMS.  However, Four nos. of ambient air quality monitoring stations have been established in consultation with MPCB Officials. Considering meteorological data, Topographical features and environmentally and ecologically sensitive targets which are as follows:  Near Pit Office  Near Magzine Building  Colony  Murpar Village  Maximum and minimum concentration of parameters (SPM,				
		Parameters Permissible Concentration (24 hourly values in μg/m³)				
				IIIII	Min	Max
			SPM	600	210	276
			SITVI	-	110	156
			$PM_{10}$	300	127	179
			11/110	100	54	89
			PM <sub>2.5</sub>	-	32	52
			-	60	24	40

 $NO_x$ 

				120	BDL	11
			$SO_x$	80	BDL	11
		The monitoring of ambient air quality in the mine area is carried out fortnightly basis & reports are submitted regularly to MoEF & CC. Copy of the monitoring report is enclosed as Annexure-VII.				
ii.	Major approach roads shall be black topped and properly maintained.	Tł	omplied.  ne entire lengt black topped.		of Coal trans	portation roads
iii.	Greenbelt, consisting of three-tier plantation, of width not less than 7.5m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach roads/coal transportation roads.	Complied. WCL, Murpar project has deposited Rs. 77,74,068/- on 25.10.2012 for gap plantation and cattle proof trench to Bramhapuri Forest Division. Tree plantation 61125 Nos. on 75.00 ha. Vacant land (condition 2-c of Forest Clearance no. 8-35/2000-FC, dt. 01.06.2001) (gap plantation in forest) has been done by forest department.				
iv.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed and construct a bypass road, it should be so constructed that the impact of sound, dust and accidents could be appropriately mitigated.	As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.				
v.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining "PUC" certificate from the authorized pollution testing centers.	Production has been discontinued from 17/08/2022 since mine comes under the eco sensitive zone of Tadoba Andhari Tiger Reserve and notice of closure has been submitted to DGMS.				
vi.	Coal stock pile/ coal crusher/ feeder breaker, transfer points shall invariably be provide with dust suppression system. Belt- conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid	Pr mi Ti	ine comes und	been discontin	itive zone of	7/08/2022 since Tadoba Andhari en submitted to

	air borne dust.	
vii.	Coal Handling Plant shall be operated with measures viz. bag filters/ water or mist sprinkling system etc. to control fugitive emissions from crushing operations, conveyor system, transfer points, etc.	Not Applicable.  Production has been discontinued from 17/08/2022 since mine comes under the eco sensitive zone of Tadoba Andhari Tiger Reserve and notice of closure has been submitted to DGMS.
viii.	The project proponent shall not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any change of mine inundation.	There are no major channels around the project area.
ix.	Garland drains (of suitable size, gradient and length) around the critical areas i.e mine shaft and low lying areas, shall be designed keeping at least 50% safely margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provide adequate	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
X.	The water pumped out from the mine after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. the drains shall be regularly desilted particularly after monsoon and maintained properly.	Not applicable. As per gazette notification No: 2973 dated 11/09/2019 Murpar UG mine comes within the eco sensitive zone of Tadoba Andhari Tiger Reserve. Mine has been discontinued from 17/08/2022 and notice of closure has been submitted to DGMS.
xi.	Industrial waste water from coal handling plant and mine water shall be properly collected and treated so as to conform to the standards prescribed under Environment (Protection) Act, 1986 and the rules made there	Not Applicable.  Mining operations has been stopped completely from 17/08/2022 and notice of closure has been submitted to DGMS.

xii.	under, and as amended from time to time. Oil and grease trap shall be installed before discharge of workshop effluents. Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste water.  Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	buffer zone	village e wate	es. er shortag	o impact on ge in the vill		
(d)	Illumination, Noise & Vibration	Control					
( <b>d</b> )	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored.	Complied. Adequate 1 locations to			ements were	e provided	in mine
ii.	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged	Complied.  Personnel w like Ear plug			ting mine we	ere provided	l with PPE
	in underground mining operations, operation of HEMM,		Y	'ear	Ear Plug issue		
	etc. shall be provided with		2	015	80		
	personal protective equipments (PPE) like ear plugs/ muffs in	<u> </u>	2	016	25		
	conformity with the prescribed	<u> </u>	2	017	50	1	
	norms/ guidelines in this regard.		2	018	-		
	Progress in usage of such accessories to be monitored.		2	019	100	)	
	Adequate awareness programme		2	020	-		
	for users to be conducted.		2	021	25		
			2	022	28		
iii.	The noise level survey shall be carried out as per prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and report on the same shall be submitted to this Ministry/ RO on six-monthly basis.	Colony and level data at (protection) being submi	Near re mon Amer itted to , as p	Fan Hounitored for adment RomoEF&cer Environment		e & night CMPDIL a Report of the conthly basis nitoring rep	time noise s per Env. ne same is
		Time		Permis	Noise Leve	l in dB(A)  Min	Max
					in House	141111	1 <b>114A</b>
		Day Time			75	52.80	69.20
		Night Time	e		70	51.10	68.40

	Colony		
Day Time	55	42.20	46.60
Night Time	45	41.30	44.30

Copy of the monitoring report is enclosed as Annexure-VII.

### (e) Occupational Health & Safety

i. The project Proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides carrying out regular periodic health check-up of their workers, 20% of the workers engaged in active mining operations shall be subjected to health check up for occupational diseases hearing impairment, if any.

### Complied.

As per the Statute/ DGMS guidelines, all the workers were examined once in 3 years till the closure of mine.

Details of IME/PME done in last 8 years is given below:

Vacan	IME/PME				
Year	Target	Achieved			
2015	112	145			
2016	120	128			
2017	145	164			
2018	150	170			
2019	108	114			
2020	146	66			
2021	148	97			
2022	94	103			

ii. Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.

#### Complied.

Persons exposed to dusty areas were provided with protective gears like dust masks with goggles during the operation of mine.

Numbers of dust masks with goggles issued in last 8 years are given below:

Year	Dust Mask issued	Safety Goggles issued
2022	34	12
2021	27	12
2020	750	06
2019	50	10
2018	150	04
2017	50	10
2016	25	-
2015	40	-

As per statute all personnel working in mines were training for safety and health aspects till the closure of mine.

Number of persons given training in last 8 years are given below:

(VTR: Vocational Training Rule)

		( , 11	c. rocui	ionai ii	anning itale)
Year	Refresher	VTR-	VTR	VTR	Special
		12	-13	-17	Training
2015	83	6	7	10	37
2016	91	8	5	11	10

	1	2017	0.6			1.1	1.5
		2017	86	6	5	11	15
		2018	85	15	15	6	11
		2019	114	8	11	11	35
		2020	63	7	6	11	8
		2021	78	08	12	18	17
		2022	58	09	12	16	07
iii.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.	given to a till the clo	ing as per sate and the same of mine. In the same of mine of persons gives the same of the	ensure l	nigh safe	ty standa st 8 yea	rds in mines
		2017	86	6	5	11	15
		2018	85	15	15	6	11
		2019	114	8	11	11	35
		2020	63	7	6	11	8
		2021	78 78	08	12	18	17
iv.	Effective arrangement shall be	2022	58	09	12	16	07
	made to provide and maintain at suitable points conveniently situated, a sufficient supply of drinking water for all the persons employed.  Ecosystem and Biodiversity cons	at Production has been discontinued from 17/08/202 mine comes under the eco sensitive zone of Tadoba of Tiger Reserve and notice of closure has been subn DGMS.				oba Andhari	
A	Ecosystem and Diodiversity cons	ci vation					
i.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	UG mine Andhari	zette notification comes within Figer Reserve. 2 and notice	n the ed Mine	co sensit has beer	ive zone n discon	of Tadoba tinued from
(g)	Public Hearing, R&R & CSR						
i.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks as per the	Public Head 21 Nos. o	l.  asks as per the aring are compe f land oustees laid out R&	olied wit have be	h. een fully	compen	sated as per

Action Plan submitted with budgetary provisions during the Public Hearing.

Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/R&R Policy of the State Government, as applicable.

National R&R Policy/R&R Policy of the State Government. No. of Jobs given to 21 persons and Rs. 8,97,043.25 paid to land losers.

ATR of Public hearing is enclosed as annexure-VIII.

ii. The project proponent shall ensure that the expenditure towards, the socio-economic development in and around the mine, in every financial year is incurred in pursuance of the Corporate Social Responsibility as provisioned under Section 135 of the Components Act, 2013.

#### Being complied.

The activities undertaken for the specific villages adopted under CSR are displayed on the company website and are updated accordingly.

In every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. Umrer Area has spent the following under CSR in last 13 years:

Year	Rs. in lakhs
2022-23	54.79
2021-22	46.84
2020-21	53.17
2019-20	64.80
2018-19	12.01
2017-18	15.84
2016-17	6.09
2015-16	8.46
2014-15	39.98
2013-14	216.88
2012-13	152.98
2011-12	85.80
2010-11	49.59

<sup>\*</sup>CSR funds for the year 2015-16 and 2016-17 were diverted to Swaccha Bharat Abhiyan.

The activities broadly include:

- Construction of WBM and CC road at nearby villages
- Construction of Well and Storage arrangement and pipe line for providing drinking water
- Installation of RO plant at nearby villages and ZP schools.
- Construction of Green Haat at village
- Construction of Compound wall at ZP Schools.
- Skill development training for nearby villagers.

\*CSR funds for the year 2015-16 and 2016-17 were diverted to Swaccha Bharat Abhiyan. Details Enclosed as Annexure-IX.

iii. The project proponent shall Not applicable.

	follow the mitigation measures provided in the Ministries OM No.Z-11013/5712014-IA.11 (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	There is no village in the mine lease area or surrounded by the mine lease area.  Nearest village i.e. Murpar village is approx. 1600 m away from the mine boundary.		
iv.	The Project Proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent shall implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land.	Not applicable.  There is no grazing land in the core zone of the project. So, there is no necessity of making alternate arrangement for livestock grazing.		
(h)	Corporate Environment Respons	orporate Environment Responsibility		
i.	The Company shall have a well laid down Environment Policy duly approved by the Board of Directors. The Environment Policy should prescribe for standard operating procedures to have proper checks & balances and to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions. The company shall have a well laid down system of reporting of noncompliances/violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large.	Complied. Coal India Limited has framed an Environment Policy which is being complied with in all the mines. To deal with environmental issues and for ensuring compliance with environmental clearance conditions, At corporate level (at HQ), there is a fully fledged Environment Department which is headed by General Manager (Env.) with a multi-disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.  At Area level, the Environmental management cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Umrer Sub Area, Staff Officer (Civil), Umrer Area.  At Project level, it is headed by Sub-Area Manager, Umrer Sub Area and assisted by Mine Manager/Safety Officer, Umrer Sub Area, Survey Officer, Umrer Sub Area and Nodal Officer (Environment) of the project		
ii.	The hierarchical system or Administrative Order of the company to deal with environmental issues and for	Complied.  The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is		

	ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	displayed on company website www.westerncoal.in.
iii.	A separate environmental management cell, both at the project level and company headquarter level, with suitable qualified personnel shall be setup under the control of a Senior Executive, who will report directly to the Head of the Organization.	Complied.  The Environmental Management cell at corporate level is headed by GM (Env) and assisted by a multidisciplinary team of qualified and trained engineers under the control of Director (Tech.)  At Area level, the cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Umrer Sub Area, Staff Officer (Civil), Umrer Area.  At Project level, it is headed by Sub-Area Manager, Umrer Sub Area and assisted by Mine Manager/Safety Officer, Umrer Sub Area, Survey Officer, Umrer Sub Area and Nodal Officer (Environment) of the project.
iv.	Action plan for implementing the EMP and environmental clearance conditions shall be prepared and duly approved by the competent authority. Yearwise funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry / Regional Office along with the Six Monthly Compliance Report.	Complied.  The funds earmarked for environment was not diverted for other works. Expenditure incurred for major environmental management and monitoring works are given below:    Year
V.	Self Environmental Audit shall be conducted annually. Every three years, a third party environmental audit shall be carried out for assessing the environmental performance.	Complied.  Internal environmental audit system has been setup in the company recently. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status every month through a formatted checklist. Inter-area inspection to review compliance status is being done on quarterly basis. The report of the inspection is being put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL.  Every three years the third party assessment of EC compliance will be carried out.  At present, third part assessment of EC compliance has been

		undertaken through CSIR-NEERI (Expert Agency identified by Ministry). The inspection has been carried out by CSIR-NEERI for assessment of EC compliance on 16.01.2021.
(i)	Statutory Obligations	
i.	Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, from time to time, and as applicable to this project.	Noted
ii.	This Environmental Clearance is subject to obtaining wildlife Clearance, if applicable from the Standing Committee of National Board for Wildlife, as applicable to the project.	Agreed.  Production has been discontinued from 17/08/2022 since mine comes under the eco sensitive zone of Tadoba Andhari Tiger Reserve and notice of closure has been submitted to DGMS.
iii.	The Project Proponent shall obtain Consent to Establish/Operate under the Air (Prevention & Control Of Pollution) Act, 1981 and water (Prevention & Control Of Pollution) Act, 1974.	Complied.  Consent to Establish was obtained from the Maharashtra Pollution Control Board for the enhanced capacity of 0.28 MTPA vide consent no. BO/ JD (APC)/ TB-2/UAN No-38469/R/CC-1901002000 dtd.28.01.2019 (Copy of CTE and Minutes of 6 <sup>th</sup> CC meeting enclosed as Annexure-II).  Consent to Operate for the same was obtained from MPCB vide letter no BO/ JD (APC)/ TB-2UAN No-38469/R/CC1901001995 dated 28/01/2019 and consent was renewed on 22/07/2022 vide letter No. Format1.0/APAE Section/ UAN No.0000124453/CO/2207001172 which is
iv.	The project proponent shall obtain necessary permission of the Central Ground Water Authority (CGWA).	valid up to 31/12/2024. (Copy enclosed as Annexure: III).  Complied.  NOC from CGWA has been secured for abstracting / dewatering of Ground Water (NOC No. CGWA/ NOC/ MIN/ ORIG/2022/14563) which is valid up to 14/02/2024. Copy Enclosed as Annexure-IV.
(j)	Monitoring of Project	
i.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely particulates, SO <sub>2</sub> , and NO <sub>x</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmental and ecologically sensitive receptors in	Being complied.  Four nos. of ambient air quality monitoring stations have been established in consultation with MPCB Officials. considering meteorological data, Topographical features and environmentally and ecologically sensitive targets which are as follows:  • Near Pit Office • Near Magzine Building • Colony • Murpar Village
	sensitive receptors in	Maximum and minimum concentration of parameters (SPM,

	consultation with the State Pollution Control Board. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be	m				Environmental sep 2023) is as	
	carried out at least once in six months. Online ambient air quality monitoring station/	air ion/ l in	ix nir n/ in	Parameters	Permissible limit		ration (24 nes in μg/m³)
	stations may also be installed in						Min
	addition to the regular air monitoring stations as per the		SPM	600	210	276	
	requirement and/or in		SI W	-	110	156	
	consultation with the SPCB.		$PM_{10}$	300	127	179	
			F 1V110	100	54	89	
			DM	-	32	52	
			PM <sub>2.5</sub>	60	24	40	
			NO	120	10	16	
			NO <sub>x</sub>	80	07	15	
			50	120	BDL	11	
			$SO_x$	80	BDL	11	
		m		DIL. Copy of h		l out once in six nonitoring report	
ii.	The Air Quality Monitoring in the core zone shall be carried out to ensure compliance of the coal industry standards noted vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to CPCB/SPCB	Ai m 20 Na	onitored as per 000 & quarter agpur & Mah	Environment ( ly reports are	(Protection) A submitted to tion Control	ater quality were Amendment Rule o MOEF & CC Board. Reports	
iii.	Effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standard notified vide GSR 742(E) dated	No	ot applicable.				

iv.	25.9.2000 and as amended from time to time by the Central Pollution Control Board.  The monitoring data shall be updated on the company's website and displayed at the project site. The circular No: J-20012/1/2006-IA.1I (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Being complied.  Monitoring data is being regularly uploaded at WCL official website <a href="https://www.westerncoal.in">www.westerncoal.in</a> . Monitoring reports are sent to MoEF&CC on regular basis.  Reports enclosed as Annexure-VII.
V.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells/constructing new piezometers during the mining operation. The monitoring of groundwater shall be carried out four times in a year i.e, premonsoon, monsoon, postmonsoon and winter and the ground water quality shall be monitored once in a year and data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change / Regional Office.	Being complied.  Regular monitoring of ground water level & quality in dug wells has been carried out by establishing a network of existing wells and the reports have been sent to R.O, MoEF & CC on regular basis. Report of Ground Water Monitoring is enclosed as Annexure-XI.
vi.	Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring date shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.	Not applicable.  There are no springs and perennial nallahs flowing in and around the mine lease.
vii.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/ Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to march of the financial years.	Complied.  Six monthly reports are submitted regularly to Regional office of Ministry of Environment, Forest and Climate Change.  The six monthly report for the period from Oct 2023 to March 2023 is submitted to MoEF&CC vide email dated 30/05/2023.

viii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted and agreed.
(k)	Miscellaneous	
i.	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	Complied.  Efforts are being made for the uses of Solar energy and bulbs are replaced by LEDs to reduce energy consumption.  01 no of 40 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at AGM Office of Umrer area and 01 no of 12 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at Area Hospital, Umrer Area.  Copy of the commissioning report of solar plant is enclosed as Annexure – XII.
ii.	The project authorities shall	Noted and complied.
11.	inform to the Regional Office regarding commencement of mining operations	Noted and compiled.
iii.	A copy of Environment Clearance shall be marked to concern Panchayat.  A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional office, District Industry Centre and Collector's office/Tehsildar Office for information in public domain within 30 days.	Complied. A copy of Environmental Clearance letter has marked to concerned Panchayat vide letter no. WCL/ SAM/ MUR/ ENVT/ 2018/ 5103, dated 08/02/18. Copy of letter is enclosed as Annexure: XIII.
iv.	The Environmental Clearance shall be uploaded on the company's website. The, compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain.	Complied.  The clearance letter had been uploaded on the company's website to bring the same in the public domain.
v.	The project authorities should	Complied.

	advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue 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 also at web site of the Ministry of Environment, Forest and Climate Change at <a href="https://www.environmentclearance.nic.inmand">www.environmentclearance.nic.inmand a copy of the same should be forwarded to the Regional Office.</a>	Advertisements regarding the issue of Environmental Clearance (Amendment) were given in the following News Papers:  • Chandrapur Samachar (Marathi daily, Nagpur) dated 22/07/18  • 'The Hitvada (English daily, Nagpur) dated 22/07/18  Copy enclosed as Annexure: XIV.
vi.	The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the PP for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail.	Complied.  The environmental statement for each financial year is submitted regularly to the MOEF's Regional Office, Nagpur along with the status of compliance of EC conditions as being practiced in all operating mines.  The Audit report for year 2022-23 was submitted online on 13/09/2023. (Annexure-XV).
vii.	The project proponent shall be abide by all the commitments and recommendations made in the EIA/EMP report and also that during their presentations to the EAC and in Public Hearing.	Noted & agreed.
viii.	The ministry may stipulate any further condition for environmental protection.	Noted & agreed.
ix.	Concealing factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in revocation of this Environmental Clearance and attract action under the provisions of Environmental	Noted & agreed.

	(Protection) Act, 1986.	
x.	The above conditions will be enforced inter-alia, under the provisions of the Water (Preventions & Control of Pollution) Act, 1981, the Environmental (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court and any other Court of Law relating to the subject matter.	
xi.	Any appeal against EC shall lie with the National Green Tribunal Act, 2010.	Noted & agreed.

Sub Area Manager Murpar UG Mine Murpar Sub Area Colliery Manager Murpar UG Mine Murpar Sub Area Nodal Officer (Env.)
Murpar UG Mine
Murpar Sub Area