# EC COMPLIANCE REPORT OF BALLARPUR OCP (0.625 MTPA), EC REF No. J-11015/71/2013-IA-II(M) dated 15.10.2020

Sr no.	Conditions	Status of Compliance
1	Clarification from District Forest Otficer that mining area and its ancillary activities does not fall under Corridor of Tadoba and life Sanctuary (Telangana). Chaprala Wildlife Sanctuary. Painganga Wild life Sanctuary. and Tipeshwar Wildlife Sanctuary.	Mining area and its ancillary activities does not fall under Corridor of Tadoba and life Sanctuary (Telangana). Chaprala Wildlife Sanctuary. Painganga Wild life Sanctuary. and Tipeshwar Wildlife Sanctuary. Clarification from DFO shall be sought.
2	Validity of the existing EC along with capacity expansion is upto the life of the mine or 5 years, whichever is earlier from the date of issue of such letter.	Agreed.
3	The project proponent shall obtain Consent to Establish/Operate from the State Pollution Control Board for the proposed peak capacity of 0.625 MTPA (Peak) prior to commencement of the product ion.	CTO has been obtained for a production capacity of 0.625 MTPA valid upto 30.06.2023. Application for renewal of CTO has been made to MPCB vide UAN no. MPCB-CONSENT-0000116744 dated 28/06/2021 for production capacity of 0.625 MTPA. CTO received for a period upto 30.06.2023. Copy of same is attached
4	All the non-compliance/partly complied condition as per certified compliance report of RO, Nagpur vide its report dated 7 May, 2020 shall be complied within 2 years	Agreed and will be complied. Copy of ATR against non-compliance/partly complied condition as per certified compliance report of RO, Nagpur vide its report dated 7 May, 2020 attached.
5	Third party monitoring (by NEERI/CIMFR/IIT) for air quality shall be carried out at identified locations, both ambient and the process area, to arrive at impact of the proposed expansion. The results along with the recommendation hall be presented before the EAC to assess the efficacy and adequacy of pollution control measures.	Four ambient air quality monitoring stations are - (i)Manager Office – Ballarpur UG (ii)Premises of SAM office (iii)Substation – Ballarpur OC (iv) Filter Plant/ Colony The stations have been fixed considering the metereorological data, topographical features etc. and it is in consultation with MPCB, Chandrapur. It is being monitored by CMPDIL regularly. Third party monitoring will be done.
6	Transportation of coal from Coal Handling Plant (CHP) shall be through mechanized covered trucks. The State Pollution Control Board, while considering consent to operate for the project, shall ensure that with the proposed coal transportation by road. Air quality would remain within the national ambient air quality standards	Transportation of coal is carried through tarpaulin covered trucks from mobile crusher.  3.00 km of internal roads are black topped.  Concrete pavement covering a length of 150 m at weighbridge.  Brooming is done regularly on internal roads. 03  Nos. Of Mobile Water Tankers  (Hired-1 no. Of 16 KL and 02 no of 08 KL) are used for sprinkling on roads., 4 nos of rainsguns at Coal stock yard and 2 nos at weighbridge are

		installed.				
7	Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient fixed type water sprinklers. Adequate correctie measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites. long range misting/logging arrangement. wind barrier vertical greenery system. green belt. dust suppression arrangement at loading and unloading points, etc	tarpaulin co 3.00 km of i Concrete pa covering a le Brooming is Nos. Of Mo (Hired-1 no- used for spri	vered trucks nternal road vement ength of 150 s done regula bile Water Ta . Of 16 KL a inkling on ro	and 02 no of 08 KL) are oads., 4 nos of rainsguns 2 nos at weighbridge are		
8	Continuous monitoring of occupational safety and other health hazards and the corrective actions need to be ensured.	Periodic health check up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases and hearing impairments. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 50 years are subjected to periodic medical examination at two and a half years interval.  Mobile repairing training programme from/			urpose of nearing ne is \$245; the subjected to	
9	Persons of nearby villages shall be given training on livelihood and skill development to make them employable	19/02/2019 Beautician of 31/03/2019( for local corresponditure	•			
10	Mechanism for treating stored mine water shall be developed to avoid any ground and surface water contamination	Mine water	is not stored	in anyway.		
11	Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles		further extern the project.	nal OB dump	ping	
12	Project proponent to plant 1,50,000 nos. of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution. After completion of tree plantation, number of trees shall be duly endorsed from District	embankmen of native tre transportation effect of air	t is 1,14,500 es with broa on route in th pollution wi	Nos. Furthed leaves alonaree years to	r plantation ag the prevent the out.	
	Forest Officer.	Sr no.	Year	No. of plantation	Area (Ha)	
		1	1993-94	48000	19.2	
		2	1994-95	35250	14.1	
		3	2000-01	10000	4	
		4	2002-03	5000	2	

		I					
		5	2004-05	8750	3.5		
		6	2009-10	5000	2		
		7	2014-15	2500	1		
			TOTAL	1,14,500	45.8		
13	Fund allocation for Corporate Environment Responsibility (CER) shall be made as per Ministry'sO.M. No. 22-65/2017- IA. I I I dated 30th September 2020 and based on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC.	The Coal India Limited Corporate Environment Policy 2019 duly followed WCL is attached.					
14	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.	DGMS p	ed Blasting is beermission. Cop attached. There on/structures du	by of the per is no damag	mission from ges caused to		
15	The Project Proponent shall complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2nd August 20 1 7 in Writ Petition (Civil) No. 1		ogress of out as per ollows:				
	14 of 20 14 in the matter of Common Cause versus Union of India and Ors. State	Sr no	Year		roduction MT)		
	Government shall ensure that the entire compensation	1	2017-18	0.0	625		
	levied, if any, for illegal mining paid by the	2	2018-19	0.0	625		
	Project Proponent through their respective	3	2019-20	0.0	625		
	Department in strict compliance of judgment of Hon'ble Supreme Court dated	4	2020-21	0	23		
	the 2"d August 20 17 in Writ Petition	5	2021-22	0	27		
	(Civil) No. 1 14 of 2014 in the matter of Common Cause versus Union of India and Ors	As per the above details, there is no violation in the coal production done from the commencement of the mine.					
16	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CG WA and State Pollution	NOC for ground water abstraction has been obtained from CGWA vide CGWA/NOC/MIN/ORIG/2021/12464 valid from 03/08/2021 to 02/08/2023. Copy of CGWA NOC attached.					

	Control Board	
17	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like B P, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented: The prevention measure for burns, malaria and provision of antisnake venom including all other paramedical safeguards may be ensured before initiating the mining activities	Periodic health check up of mine workers are carried out by Occupational Health Specialist once in 5 years with the purpose of detecting occupational diseases and hearing impairments. Every worker in the mine is examined in 5 years-up to the age of 45; the workers who are above 50 years are subjected to periodic medical examination at two and a half years interval.
18	Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z- 11013/57/2014-IA.1I (M), dated 29th October, 2014. titled "1mpact 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	The project proponent is adhering to the mitigation measures as per the guideline specific under the title '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' OM No.Z11013/5712014- IA.II (M) dated 29th October, 2014.
19	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population.  Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right to darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels wet 1 within the prescribed limits for day light/night hours	The illumination and sound at night at project sites does not disturb the villages in respect of both human and animal population. The observations are found well within the threshold limit.
20	Hon'ble Supreme Court in an Writ Petition(s) C ivi 1 No. 11 4/20 14. Common Cause vs Union of India & Ors vide its judgement dated 8th January, 2020 has directed the Un ion of India to impose a condition in the mining lease and a similar condition in the environmental clearance	Agreed and will be complied.

	and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is tit for growth of fodder, flora. fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEFCC	osmoat a	roa hoing	in CDAs		
-	Specific condition with re					
Sr no.	Conditions	Status o	of Compli	ance		
1	CTE/CTO for the project shall be obtained from the SPCB as required under the Air (Prevention and Control of Pollution) Act. 198 1 and the Water (Prevention and Control of Pollution) Act, 1974. and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q- 1 60 17/38/20 1 8-CPA dated 24" October. 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area	of 0.62		tained for a produc valid upto 30.06.202		
2	The green belt of at least 5-10 m width shall be developed in more than 40% of the total project area mainly along the periphery of mine boundary in downward wind direction, and along road sides etc.	Total plantation on existing OB Dump and embankment is 114500 Nos. Further plantation of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution will be carried out.				
	Selection of plant species shall be as per	Sr no.	Year	No. of plantation	Area (Ha)	
	the CPCB guidelines in consultation with the State Forest	1	1993-94	48000	19.2	
	Department.	2	1994-95	35250	14.1	
		3	2000-01	10000	4	
		4	2002-03	5000	2	
		5	2004-05	8750	3.5	
		6	2009-10	5000	2	
		7	2014-15	2500	1	
			TOTAL	1,14,500	45.8	
3	In addition, the project proponent shall develop green belt outside the plant premises such as avenue plantation,	embank	ment is 1	on existing OB Dur 14500 Nos. Further th broad leaves alor	plantation	

	plantation in vacant areas social forestry etc.			ate in three years to tion will be carried			
		Sr no.	Year	No. of plantation	Area (Ha)		
		1	1993-94	48000	19.2		
		2	1994-95	35250	14.1		
		3	2000-01	10000	4		
		4	2002-03	5000	2		
		5	2004-05	8750	3.5		
		6	2009-10	5000	2		
		7	2014-15	2500	1		
			TOTAL	1,14,500	45.8		
4	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	assessn NEERI	nent in FY on EC co ng the sam	ucted third party EC 2021-22 and the rep mpliance is awaited ae, it shall be submi	oort of I.After		
5	Fund allocation for Corporate Environment Responsibility (CER) shall be atleast 2 times the amount given as per Ministry's O.M. No. 22-65/2017-IA.11 I dated 30 <sup>th</sup> September 2020 and based on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	l		imited Corporate En followed WCL is a			
6	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	tarpauli 3.00 k Concre coverin Broomi Nos. O (Hired- used fo	in covered m of into te paveme ing a lengt ing is done of Mobile V 1 no. Of or sprinklin stock yar	ernal roads are bl	bile crusher. ack topped. weighbridge. nal roads. 03 f 08 KL) are of rainsguns		
7	Transportation of materials by conveyor belt, wherever feasible.	Transportation of coal is carried through tarpaulin covered trucks from mobile crusher. 3.00 km of internal roads are black topped. Concrete pavement covering a length of 150 m at weighbridge. Brooming is done regularly on internal roads. 03 Nos. Of Mobile Water Tankers (Hired-1 no. Of 16 KL and 02 no of 08 KL) are used for sprinkling on roads., 4 nos of rainsguns					

		at Coal stock yard and 2 nos at weighbridge are installed.
8	A detailed water harvesting plan may be submitted by the project proponent	Roof top rain water harvesting structure has been constructed at Manager Officer of Ballarpur OCM having rooftop area of 290.52 sqm.
9	In case, domestic waste water generation is more than 10 KLD, the industry may install STP.	At present, Septic tank and soak pit systems provided and working effectivey and satisfactorily.
10	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	NEERI has conducted third party EC compliance assessment in FY2021-22 and the report of NEERI on EC compliance is awaited shall be submitted to MOEFCC.
11	All other conditions stipulated in the environmental clearance letter dated 30 January, 2015 shall also apply.	Agreed and will be complied.

## EC COMPLIANCE REPORT OF BALLARPUR OCP (0.625 MTPA), EC REF NO.J11015/71/2013-IA.II (M) Dated, 30TH JANUARY 2015

### **A. Specific Conditions**

S.N o.	Condition	Status	Status of Compliance		
i)	The maximum production from mine at any given time shall not exceed the limit as prescribed in EC	Complied and the production doesn't excess 0.625 MTPA. The coal production for last is:			
		Sr no	Year	Production (MT)	
		1	2017-18	0.625	
		2	2018-19	0.625	
		3	2019-20	0.625	
		4	2020-21	0.23	
		5	2021-22	0.27	
ii)	The validity of the EC is for the life of the mine or as specified in EIA notification, 2006, whichever is earlier	Noted.			
iii)	Mining shall be carried out as per Statute at a safe distance from the seasonal nallah flowing within / close to the lease boundary.	statute	al nallah with due p S. Copy of permissi	distance i.e 160 m from permission from	
iv)	Top soil should be stacked properly with proper slope at earmarked site and should not be kept active and shall be used for reclamation and development of green belt.	Quanti During emban	ty: 12.398 Mm3 (as the initial years it kment and plantation		

v)	The existing OB dumps which have been biologically reclaimed shall be monitored	been plus be carp progres years is Sr no  1 2 3  It will Total p	Year Upto 2020-2 2021-22 2022-23 (upt june 2022) be complied. lantation on o	No 8 backfi Top so Top	which illed are oil removed from Sop soil Mm³) 2.128 0.16 0.11	is propose ea in a oved in las removed	d to	
	and if required stabilized with plantation using native species.	Sr no.	Year	No. o		Area (Ha	1)	
		1	1993-94	4800		19.2		
		2	1994-95	3525	0	14.1		
		3	2000-01	1000	0	4		
		4	2002-03	5000		2		
		5	2004-05	8750		3.5		
		6	2009-10	5000		2		
		7	2014-15	2500	1	1		
			TOTAL	1,14,	500	45.8		
vi)	Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off of 2015	biologi species sedime is requ wall(La constru	Il the existing cally reclaimed, as such therents from these ired to check ength – 300 macted along the ons of Mahara	ed and e is no e dump run of n Heig e Ward	stabilize siltation siltation ps. Hen f. Howe the ht – 3.0 dha rive	ed with name of the ce, no toe ever, a Gabon of the ce o	ative of wall pion peen	
vii)	Drills should be wet operated	Drills	are being wet	opera	ted.			
viii )	Roads shall be metal topped and mechanical sweepers shall be regularly deployed to minimize clear the dust off the main approach and mineral transportation roads. Water sprinkling (fixed and mist type, mobile) shall be done regularly	topped 150 m regular Water' (Hired- used fo	x. 3.00 km of . Concrete parat weighbridged on internal rankers -1 no. Of 16 keeps sprinkling of stock yard and and and and and and and and and an	vemenge. Broroads  KL and on roads	t covering coming . 03 No 1 02 no ds., 4 no	ing a lengt is done s. Of Mob of 08 KL) os of rainsg	h of ile are guns	

	CGWA/ CGWB Regional office for use of ground water if any for mining operations.	CGW	/A/NOC/M 3/2021 to 0			l valid from GWA NOC
x)	Coal Transportation in pit by Dumpers, surface to siding by Dumpers and loading to siding by Pay Loaders	surfa	ce to siding	g is done b	is done by I y Dumpers Pay Loader	and loading
xi)	The production shall be within the same Mining Lease area			is containe a of 242.6	ed within the 4 Ha.	e same
xii)	The depth of the void shall be 35 m from the ground level and should be adequate for fishery purpose.	final mine void dept depth which will be reached after the end of mine will be appropriately addressed.  Noted and will be complied. The backfilling is in progress. Out of 69.019 Mm3. The details of OB excavated ,backfilled and area physically reclaimed is as follows:  Sr Year OB OB Physical			ts. The be reached	
xiii )	The OB shall be completely re-handled at the end of the mining. The rest of the area will be backfilled upto the ground level and covered with about a meter thick top soil	progr	ess. Out of ated ,back	f 69.019 N filled and	Im3. The de	etails of OB
	and put to use.	Sr no.	Year	OB removed (Mm³)	OB Backfilled (Mm³)	
		1	2016-17	3.54	3.54	0
		2	2017-18	4.432	4.443	3.204
		3	2018-19	2.734	2.8	7.5
		4	2019-20	0.112	0.112	2.7
		5	2020-21	0.14	0.14	0
		6	2021-22	0.993	0.993	0
		7	2022-23 (upto June 2022)	2.712	2.712	0
xiv )	Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	- 10 bound with and wall( const	m have ladary is of splantation prevent Length – 3 ructed alotions of	been const suitable din so as to w mine in 300 m Hei ng the W	ructed alone mensions and withstand the undation.  ght - 3.00 rardha river	and Height ag the river ad stabilized e peak flow A Gabion n) has been as per the on Control
xv)	The CSR cost should be Rs 5/tonnes of coal produced which should be adjusted as per the annual inflation.	policy the Cavera	y under Co SR will be ge net prot	ompanies A allocated fit of the C	as per the C Act, 2013, The based on 2% company for acial years o	he fund for 6 of the three

		per Tonne of Coal Production of the previous year whichever is higher.  CSR works performed are as follows:  1. Construction of Vyamshala at Rajenda Prasad Ward Ballarpur  2. Construction of Vyamshalaa Zakir Husain Ward Ballarpur  3. WBM road to Bamboo Cluster at Bamvillage  4. Construction of Sanskrit Bhavan at Ballarpur under CSR  5. Construction of concrete road at ShivajiNagar Ballarpur under CSR  6. Providing and fixing 12.5 mtr high ma Tower at Ballarpur Nagar Praishad  7. Construction of compound wall at Mo Fort school at Bamni under CSR  8. Construction of drain at Visapur  Expenditure in last 5 years is as follows:					
		Sr no	Year	Expenditure (Lakhs)			
		1	2017-18	24.04			
		2	2017-18	7.82			
		$\frac{2}{3}$	2019-20	237.35			
		4	2020-21	47.05			
		5	2020-21	2.17			
)	Everybody in the core area should be provided with mask for protection against fugitive dust emissions	operatir	asks are provided to the ground in the control on against fugitive dust	ore area for			
xvii )	Dust mask to be provided to everyone working in the mine area		s engaged in mine area iate personal protectiv	-			
xvii i)	The supervisory staff should be periodically responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Workers engaged in mine area are provided with appropriate personal protective equipments. Regular awareness programs for training and retraining of workers are also conduted in the vocational training center of Area.					
xix )	People working in the core area should be periodically tested for the lung diseases and the burden of cost on account of working in the coal mine area.	carried detectin impairn examine workers	c health check up of nout once in 5 years wing occupational diseasements. Every worker intended in 5 years- up to the who are above 50 years medical examination terval.	th the purpose of es and hearing the mine is e age of 45; the ars are subjected to			

x)	The mining area should be surrounded by green belt having thick canopy of the tree	Will be complied. Total plantation on existing OB Dump and embankment is 114500 Nos					
	cover.	Sr no.	Year	No. of plantation	Area (H	Ia)	
		1	1993-94	48000	19.2		
		2	1994-95	35250	14.1		
		3	2000-01	10000	4		
		4	2002-03	5000	2		
		5	2004-05	8750	3.5		
		6	2009-10	5000	2		
		7	2014-15	2500	1		
			TOTAL	1,14,500	45.8		
and critical patches shall be strengthened by stone pitching on the river front side and stabilised with plantation so as to withstand the peak water flow and prevent mine inundation.			Mm3 of O 66.062 Mm bankment have been fter stabilized i.e Shishar on wall(Lean construct directions of Board.	ekfilling is in B excavated 3 has been a of Length — Biologically ed by planta m, Karanji, N ngth — 300 med along the of Maharash	d upto Septe accommod 5.5 km and y reclaimed ation of nati Neem, etc. m Height — e Wardha ri ntra Pollutio	ember ated in d Height l and ive 3.00 m) iver as on	
xii	There shall be no overflow of OB into the river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.	- 3.00 river as	Complied. A Gabion wall(Length – 300 m Height – 3.00 m) has been constructed along the Wardha river as per the directions of Maharashtra Pollution Control Board. Embankment has been stabilized with plantation.				
xii )	There shall be no external OB dumps.	69.019	Mm3. The	OB generate details of	OB excavat	ed	
		Sr no.	Year	removed	OB Backfilled (Mm³)	Physical reclamat (Ha)	
		1	2016-17	3.87	3.87	0	
		2	2017-18	4.432	4.443	3.204	
		3	2018-19	2.74	2.74	7.5	

			ı	<u> </u>	_	
		4	2019-20	0.112	0.112	2.7
		5	2020-21	0.14	0.14	0
xxi v)	Catch drains and siltation ponds of appropriate size shall be constructed to arrest the silt and sediment alows from soil, OB and mineral dumps. The water so collected shall be utilised for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.	have be OB durwater so Garlan Length Width Depth Catch of Length Width Depth These of before at the capacit The waadequar suspen pumpe sedime The treat is green but The draws onset of the draws onset of the draws of the draws onset of the draws of the	d drain : - 2916 m - varying i - varying	n size from from 1.2 m garland do ery monsor is of size from the silts & ross drainate keeping lected in the time to all lis. The supface & feet of for see from surfappression of ment ilted every The quant	n 1.5 m to 3 m to 2.0 m m 1.0 m to 1.5 m rain are clear on. The sun the sudden the sump get low proper pernatant was a linto surface condary treated of the mine of year before	arry and to natural as a natura
)	Crushers at the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	weight interna (Hired- used fo at Coal installe	ete pavemen oridge. Brood l roads.03 Notes. I no. Of 16 or sprinkling stock yard, ed. Water speed for mobil	oming is do Nos. Of Mo KL and 0 g on roads. and 2 nos raying arra	one regularly obile Water 2 nos of 08 04 nos of s at weighbr	y on Tankers KL) are rainguns ridge are
xxv i)	The project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3 tier green bellt comprising of a mix of native species shall be developed all along the major approach roads.	Concre weight interna	m of interna ete pavemen oridge. Broo I roads. Reg ods is done	t covering ming is do gular repair	a length of one regularl ring and ret	`150 m at y on arring of
XXV	Controlled blasting shall be practiced with	Contro	lled blasting	g is being 1	practiced to	reduce

ii)	use of delay detonators and only during daytime. The mitigtaive measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	ground vibration and arrest flyrocks as per DGMS permisssion. Copy of permission from DGMS attched.				
xxv iii)	iii) implemented covering an area of 126.24 ha	Total pl	ntation done antation on ment is 1145	existing OB	Dump and	
	reclaimed External OB dump area (32.53 ha), internal OB dump area (90.21 ha),	Sr no.	Year	No. of plantation	Area (Ha)	
	along roads and green belt (0.50 ha) in township located outside the lease by	1	1993-94	48000	19.2	
	planting native species in consultation with	2	1994-95	35250	14.1	
	local DFO. The density of the trees shall be	3	2000-01	10000	4	
	around 2500 plants/ha. Massive plantation shall be carried out in open spaces in and	4	2002-03	5000	2	
	around the mine and a 3 tier avenue	5	2004-05	8750	3.5	
	plantation along the main approach roads to mine.	6	2009-10	5000	2	
	33	7	2014-15	2500	1	
			TOTAL	1,14,500	45.8	
	Out of which 13.780 Mm³ of OB will be dumped into one internal dump covering an area 142.69 ha of land with height upto ground level. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self sustaining and compliance status shall be submitted to MOEF and its regional Office on yearly basis.		Maharashtra Pollution Control Board on Six monthly basis.			
)	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	The restoration & reclamation plan for degrade area will be in line with the approved EMP.				
xxx i)	Compensatory ecological & restoration of		e followed an ntation done antation on ment is 1145	till date: existing OB		
		Sr no.	Year	No. of plantation	Area (Ha)	
		1	1993-94	48000	19.2	
		2	1994-95	35250	14.1	
		3	2000-01	10000	4	
		4	2002-03	5000	2	
		5	2004-05	8750	3.5	

		6	2009-10	5000	2
		7	2014-15	2500	1
			TOTAL	1,14,500	45.8
xxx ii)	The mining should be phased out in sustainable manner. No extra OB dumps are permitted.	There is no extra external dump. All OB excavated is being accommodated in decoaled void. The entire OB excavated is being used for backfilling of the decoaled Area progressively.			in decoaled being used for
xxx iii)	No groundwater shall be used for mining operations.	No ground water is used for mining operations. NOC for ground water abstraction has been obtained from CGWA vide CGWA/NOC/MIN/ORIG/2021/12464 valid from 03/08/2021 to 02/08/2023. Copy of CGWA NOC attached.			
xxx iv)	Of the total quarry area of 172.31 ha the backfilled quarry area of 90.21 ha shall be reclaimed with plantation and a void of 29.62 ha at a a depth of 40 m which is proposed to be converted into a wter body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation/afforestation by planting native plant species in consulation with the local DFO. Density shall be 2500 plants per ha.	being acentire O of the degenerate Mm3 of Mm3 hamining The finareached appropr The eml—10 m I there after the control of the c	ecommodated B excavated ecoaled Area ed is being bacton as been accordand use will all mine void after the endiately address bankment of have been bid er stabilized	d in decoaled is being used progressively ackfilled. Out ed upto June 2 mmodated in v be as per app dept depth whill of mine will sed.	for backfilling v. All the OB of 71.731 2022, 68.767 void. The post roved reports. iich will be be km and Height aimed and of native
xxx v)	Regular monitoring of GW level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers  Monitoring shall be done 4 times a year.  Data is submitted to MOEF and CPCB quarterly with in one month of monitoring.	carried of monsoo monsoo seasons monitor Office, o	out by CMPI n (May), Mo n (November and for qual- ing report is	yel monitoring DIL, 4 times a onsoon (Augus r) and Winter ity once in a y regularly sent our with a cop CB.	year in pre- st), Post- (January) ear. The to Regional
xxx vi)	The company shall put up artificial GW recharge measures for augmentation of Gw resource in case monitoring indicates a decline in water table.		r regular sup	have no shorta ply of water is	
xxx vii)	STP shall be installed in existing colony. ETP shall also be provided for workshop and CHP wastewater.	Ballarpu system i effluent	ur UG mine vis provided. I , 75 KLD ET	the lease hold where septic to For treatment of TP is under co tank provided	ank and soak of workshop nstruction.01
xxx viii	Besides carrying out PME of workers, 10% of the workers identified from workforce			k up of mine v years with the	

)	engaged in active mining opertaions shall be subjected to health check up for occupational diseases and hearing impairment.	detecting occupational diseases and hearing impairments. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 50 years are subjected to periodic medical examination at two and a half years interval.
Xx xix	Land oustees shall be compensated as per the norms laid out R & R policy of CIL or National R&R policy whichever is higher	Entire land has been acquired and R & R has been already settled No house oustees involved.  Total land compensation paid = Rs 37769432
xI)	For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery( on a scale of 1: 5000) of core zone and buffer zone, from start of project until end shall be prepared once in 3 years and report should be submitted to MoEFCC and its concerned Regional authority.	Digital survey of entire lease hold area using satellite remote sensing survey is carried out ine in three years. The copy of report is attached The same is submitted to RO, MOEF&CC along with six monthly report.
xIi)	A detailed final mine closure plan along with details of Corpus fund shall be submitted to MoEFCC within 6 months of Environmental clearance	The progress of mining activities are being carried out as per approve mining plan. The Mine Closure Plan is an integral part of approve Mining Plan. The post mining land use will be as per approved reports.  The land after completion of all closure activities and reimbursement of corpus deposited appropriate action for handing over the land will be taken. A mine closure plan was approved by the WCL Board along with opening of a corpus fund / account having account no.  08973161009901 was opened at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on date 31.03.2022 is INR 10,78,42,956/
xIii	The project authorities shall in consultation with the panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	Agreed, will be complied as per the CIL's CSR policy under Companies Act, 2013, The fund for the CSR will be allocated based on 2% of the average net profit of the Company for the three immediate preceding financial years or Rs 2.00 per Tonne of Coal Production of the previous year whichever is higher.  CSR works performed are as follows:  1. Construction of Vyamshala at Rajendra Prasad Ward Ballarpur 2. Construction of Vyamshalaa Zakir Husain Ward Ballarpur 3. WBM road to Bamboo Cluster at Bamni

*11	
villa	age

- 4. Construction of Sanskrit Bhavan at Ballarpur under CSR
- 5. Construction of concrete road at ShivajiNagar Ballarpur under CSR
- 6. Providing and fixing 12.5 mtr high mas Tower at Ballarpur Nagar Praishad
- 7. Construction of compound wall at Mount Fort school at Bamni under CSR
- 8. Construction of drain at Visapur

9.

Expenditure in last 5 years is as follows:

Sr no	Year	Expenditure (Lakhs)
1	2018-19	7.82
2	2019-20	237.353
3	2020-21	47.05
4	2021-22	2.17

#### xIii | Corporate Environment responsibility:

i)

- a) The company shall have a well laid down Environment policy approved by the Board of Directors
- b) The Environment policy shall prescribe for standard operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or Forest norms/conditions.
- c) The hierarchial system or administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the

#### Complied.

The Coal India Limited Corporate Environment Responsibility Policy 2019 duly followed by WCL is attached.

Self 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 put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL. Mechanism for internal monitoring of EC compliance is enclosed as **ANNEXURE 7.** 

At HQ, WCL- The cell is headed by GM (Env) reporting to Director (Technical). The team comprises of multi-disciplinary trained executive.

At Area level – Area General Manager heads the Environment Department & assisted by GM (oprn), ANO(Envt) and 1 Assistant Managers(Envt) of Environment discipline.

**At Unit Level-** Environment Management Cell is headed by Sub-Area Manager and is assisted by Mine Manager and Project Nodal Officer (Env)

company and/or shareholders or stake holders at large.	at unit level.
	The hierarchical system of the company for
	dealing with environmental issues exist at
	corporate level & area level. It has been uploaded
	on WCL website, linked as
	http://www.westerncoal.in/?q=node/431

#### **B. General Conditions**

S. NO.	Condition	Status of Compliance
i)	No change in Mining technology and scope of working shall be made without prior approval of the MOEF & CC	Noted and will be complied. No change in Mining technology envisaged.
ii)	No change in calendar plan of production for quantum of mineral coal shall be made	Noted and will be complied.
iii)	Four ambient air quality monitoring stations shall be established in the core zone as wel as in the buffer zone for PM 10, PM 2.5, SO2 and NOX.	
iv)	Data on ambient air quality monitoring and heavy metals such as Hg, As, Ni, Cd, Cr tc shall be regularly submitted to Ministry including its concerned Regional office and to SPCB and CPCB once in 6 months.	Ambient Air quality monitoring is being carried out as per GSR 742(E). It is being monitored by CMPDIL regularly, attached as Annexure -B.  Monitoring reports for the period 01.04.2022 to 30.09.2022 enclosed along with Heavy metal analysis report.  Data on ambient air quality monitoring and heavy metals such as Hg, As, Ni, Cd, Cr etc is being regularly submitted to Ministry including its concerned Regional office and to SPCB and CPCB through six monthly reports.
v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged with blasting and drilling operations,	Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of HEMM, etc are provided with ear plugs/muffs.

	operation of HEMM etc shall be provided with ear plugs/muffs					
vi)	Industrial wastewater (workshop and WW from mine) shall be properly collected, treated so as to conform the prescribed standards	For proper treatment of Industrial wastewater-One ETP of capacity 75 cum/day is under construction and 01 no of Sedimentation tank has been constructed near the mine for treatment of mine pumped out water. The quality of discharge is being monitored so as to ensure compliance of prescribed norms before discharging.  Monitoring reports for the period 01.04.2022 to 31.09.2022 enclosed.				
vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded.	Coal transportation vehicles are covered with tarpaulins and are optimally loaded.  Vehicular emissions are kept under control PUC certificate for all light & passenger vehicles are taken.				
viii)	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the SPCB abd data analysed through a lab recognised under EPA rules, 1986.	Monitoring of environmental quality parameters is done by CMPDIL, Nagpur. There is a full fledged NABL accredited Env. Laboratory of CMPDIL. The Monitoring is done through this laboratory at fortnightly interval.				
ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on safety and health aspects.	Protective respiratory devices are provided to workmen exposed to dust area. Workers are also regularly given training on safety and health aspects at VTC (this is the statutory requirement under mines safety act). Periodical medical examnination of every worker is being done every five years in our area hospital to detect any disease so that the appropriate action can be taken up at project level.				
		Details of l	ME and	I PME do	ne at	Ballarpur Area
		is given be		. 1 1VIL GO	.110 at	Danaipai Aice
			IME (iı			E (in nos.)
		l — — — —	Acheive	d	Targe	
			953		1220	
		2022	857		1220	1216
		Details of VTC trainings carried out at Ballar Area is given below:		out at Ballarpui		
		V <sub>2</sub> -		V	TC T	raining
		Yea	ľ	Target	1	Acheived
		2021-22	,	680		592
		2022-23 Sept 2022	(upto	680	4	440
x)	Occupational health surveillance	It was subr	nitted th	nat every	work	er in mine was

	programme of the workers shall be taken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof.	years; the subjected two and a Details of Area is given Year  2021 2022  As per the specified	once in 5 years workers who are top periodical me half years as per lf IMPE and PMI ven below:  IME (in nos.) Acheived  953 857  The records availability the Mine's Rule tified till date.	e above 50 edical examaw. E done at PME (in Target   1220   1220 ole, no no	years are mination at Ballarpur  nos.) Acheived 1425 1216 tifiable (as
xi)	A seperate environmental management cell with suitable qualified personnel shall be setup under the control of Senior Executive, who will report directly to the Head of the company.	At HQ, W reporting comprises executive. At Area le the Enviro (oprn), An Environm At Unit L is headed	VCL- The cell is he to Director (Technology of multi-discipling evel – Area Generonment Department NO(Envt) & 1 Assent discipline.  Level- Environment by Sub-Area Manager, Project Nod	nical). The nary traine al Manage istant Manage ager and a	team d er heads by GM nagers of ment Cell assisted by
xii)	The funds earmarked for environmental protection measures shall be kept in seperate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the Ministry and its concerned RO	The funds earmarked for environment protection measures are kept in seperate account and it is			
xiii)	The project authorities shall advertise at least in 2 local newspapers widely circulated around the project, one of which shall be in the vernacular language of locality concerned within 7 days of the clearance letter informing that the project has been accorded environmental clearance and a copy of EC is available at SPCB and may also be seen at website of MoEFCC.	Mahavida Chandrap Attached.	d in two news pap rbha Hindi – 20.10 ur Smamachar – 2	0.2020	
xiv)	A copy of EC letter shall be marked to concern Panchayat/zila parishad, Municipal Corporation or Urban local body and local NGO, if any, from whom		onment clearance parishad but no su		

	any suggestion./representation has been recieved while processing the proposal.	
xv)	A copy pf EC letter shall also be displayed on website of the concerned SPCB. The EC letter shall also be displayed at Regional Office, district industry sector and Collector's Office/Tehsildar's Office for 30 days.	Agreed, a copy of EC has been uploaded on company website. A copy of six monthly has also been uploaded.
xvi)	The clearance letter shall be uploaded on the company's website. The compliance status of the stipulated environmental clearance 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. The monitoring data of environmental quality parameter and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.	The clearance letter has been uploaded on website of Western Coalfields Limited. The compliance report is being uploaded. Website link to access EC is <a href="http://westerncoal.nic.in/?q=node/271">http://westerncoal.nic.in/?q=node/271</a>
xvii)	The project proponent shall be submit six monthly compliance reports on status of Complaince of the stipulated EC conditions (both in hard copy and email) to the respective Regional Office of Ministry, respective Zonal offices of CPCB and SPCB.	Agreed, six monthly compliance reports on status of Complaince of the stipulated EC conditions (both in hard copy and email) are being sent to the respective Regional Office of Ministry, respective Zonal offices of CPCB and SPCB.
xviii	The regional office of this ministry located in the region shall monitor compliance of the stipulated conditions. The project authorities shall extend full co-operation to the office(s) of the Regional Office by furnishing the requisite data/information/ monitoring reports	Agreed. Full cooperation shall be provided to the officers of Regional Office.
xix)	The environment statement for each st financial year ending 31 March in Form-V is mandated to be submitted by the project proponent for the concerned SPCB as prescribed under the EP Rules, 1986, as asmended subsequently, shall also be uploaded on the company's website along with status of compliance of EC conditions and shall be sent to the respective Regional offices of the MoEF&CC by e-mail.	The audit statement is uploaded on company website. The environment statement for each financial year is filled in Form – V before 30 <sup>th</sup> september of each year. Evironmental statement for 2021-22 attached.

5	The proponent shall abide by the commitments and recommendations made in EIA/EMP report so also during their presentation to EAC.	Noted and will be complied
6	The commitment made by the proponent to the issue raised during the Public Hearing shall be implemented by the proponent.	This project has been covered u/s 7 (ii) with exemption from Public Hearing
7	The proponent is required to obtain all necessary clearances that may be required before the start of project.	Noted and will be followed.
8	The Ministry or any other competent authority may stipulate any further condition for environmental protection	Noted.
9	The proponent shall setup an Environment Audit Cell with responsibility and accountability to ensure implementation of all EC conditions.	Self 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 put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL. Final assessment report is under compilation for appraisal of the apex committee. Mechanism for internal monitoring of EC compliance is enclosed.
10	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and may attract action under the provisions of EPA, 1986.	Noted.
11	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. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of	Noted and will be followed.

	groundwater and surface water, and coccupational and other diseases due to the mining operations	
12	Any appeal against this EC shall lie with the NGT, if preferred, with in a period of 30 days as prescribed under section 16 of NGT Act, 2010	Noted.
13	This EC supersedes the earlier EC, vide letter no. Letter J-11015/145/2007-1A.II(M) dated 18.06.2008 for 0.50MTPA	Noted.