WESTERN COALFIELDS LIMITED <u>SIX MONTHLY</u>

EC COMPLIANCE REPORTS

FOR PERIOD OF

1st October 2022 to 31st March 2023



NAEGAON OPENCAST
PROJECT WCL
WANI AREA

COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS

Bellora/Naigaon Deep Opencast Coal Mine Project (1.25MTPA). MOEF Environmental Clearance Letter No. J-11015/332/2009-IA.II(M) Dated 06/03/2012.

PERIOD: 01/10/2022 TO 31/03/2023

<u>A)</u>	Specific Conditions	Compl	iance as on 3	31/03/2023		
I	The peak production	As per the approved PR (Feb 2012), the life of the				
	capacity of the project shall	project	was worked	out to 20 year	ers for total c	oal
	not exceed 1.25 MTPA	reserve of 18.27 Million tonne and removing total of			total of	
	without prior EC form this	114.45 Million cum overburden. The mine has started				
	Ministry		-	in the year 0		he
		details of coal and OB is given below:				
		Sr.	Year	Coal	OB	7
		No.	1 car	Production	Removal	
				(MT)	(Mm3)	
		1.	2012 – 13	1.05	6.42	
		2.	2013 –14	1.05	6.75	
		3.	2014 –15	1.18	7.94	
		4.	2015 – 16	1.20	3.03	
		5.	2016 – 17	0.86	2.20	
		6.	2017 – 18	0.15	0.51	
		7.	2018 – 19	NIL	NIL	
		8.	2019-20	Nil	0.86	_
		9.	2020-21	Nil	5.30	
		10.	2021-22	0.942	7.887	
		11.	2022-23	1.25	8.11	
			Total	7.682	49.007	
Ii	Further deepening of the	Existir	ng mine depth	n – 125 m		
	mine in the dip side beyond		•	oposal is final	ized beyond	170m
	170 m shall be finalized in		EC will be ob	•	3	
	advance i.e. 3-5 years before					
	the project reaches 170 m					
	and for which a fresh (and					
	prior) environmental					
	clearance for further					
	expansion in terms of					
	additional land as well as					
	reserves shall be taken from					
Iii	this Ministry.	Embon	lymant of lar	oth 5 1 lm :	with ton w	dth 20m
111	The embankment being constructed along the			ngth 5.1 km is and variable	-	
	_				_	
				ong the bound	y 01 tile 111	ine aiong
		, aran	111, 01,			
	boundary of the mine along the River Wardha shall be of suitable dimensions taking		onstructed ale a River.	ong the bound	lary of the m	ine alon

into account the highest Plantation is done along Embankment for stability and flood level based on past grass pitching also developed long back for slope data so as to guard against stability during rainy season. 91050 Nos. of plantation is done at OB dump and mine inundation and stabilized with plantation embankment. using native species so as to with stand the peak water flow and prevent mine inundation. The slope of the embankment shall at least 2:1 towards the ML. The height of the embankment shall be at least 3 m higher than the HFL of ht river. Stone pitching shall be done in the river front and in critical stretches to stenotherm the embankment during peak rainfall. Ιv OB shall be stacked at OB is stacked at earmarked place as per PR, & the earmarked 4 external OB height of OB dump is maintained 60m only. deposits covering an area of 223.97 ha and shall not OB details as on 31/03/2023 exceed the max. height of 60 Type of Soil Heigh m consisting of benches of Dum 15 m each. The ultimate Sr. (Black Externa Are of Volum Cotto No a (in Dum (in slope of the dump shall not Nam n/ Internal Ha) p (in Mm3) exceed 28. Bamboo and e Hard m) other native species shall be Soil) planted on OB dumps for Dum slope stability. Monitoring p Noand management of the Hard 94 90 56.167 1 Internal reclaimed dumpsites shall Dum continue until the vegetation p No-Externa becomes self-sustaining, 2 Hard 1.66 29 2.95 compliance status shall be Dum p Nosubmitted to the ministry of Externa 3 77 38.3 Hard 118 Environment & Forests and Dip-BC Externa its Regional office located at 9 4 Soil 15 1.35 Bhopal on yearly basis. Dip-Externa 5 Hard 9 15 3.2 The ultimate slope of the dump is maintained not more than 28 degree. Plantation of native species is also done on OB dump for slope stability. Till now 91050.00 Nos. of mixed native species of plants have been planted on embankment and OB dumps. ٧ Catch drains of length 3 km width 1.5 m and depth 1.5 Catch drains and siltation ponds of appropriate size m have been provided around periphery of OB dumps shall be constructed to arrest to arrest silt & sediment flow from OB dumps etc, silt and sediment flows from which is maintained properly.

soil, OB and mineral dumps.

	The water so collected shall be utilized 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 setting of silt material. Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check runoff and situation shall be based on the rainfall data.	The mine water is using for watering the mine area, roads for dust suppression, and green belt development etc. Garland drain of length 5 km width 1.5 m and depth 1.5m is provided at mine boundary. Mine water sump of adequate capacity with retention period have been provided to with stand peak sudden rainfall & max discharge in the area adjoining the mine site.
vi	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.	The CHP is completely covered with GI sheet and provided with water sprinkling arrangement. Fugitive dust suppression at mines is done by mobile water tanker (1 No. 28 KL departmental tanker, 2 Nos. 16 KL contractual tanker and 1 Nos. 12 KL hired tanker)
vii	Drills shall be wet operated.	Drills are provided with wet drilling arrangement.
viii	Main approach roads used for mineral transportation shall view black topped and properly maintained. A3 tier green belt comprising of mix of native species shall be developed all along the major approach roads and major haul roads and roads near mines office, infrastructure and other buildings.	All the coal transportation & other infrastructure roads are concreted or black topped. Plantation has been done along coal transportation & approach roads. Till date 158400 nos of plantation done in 63.36 Ha.
ix	The capacity of an estimated 190 trucks used for transportation of an	Coal transportation is being done as per RTO permission of coal transportation trucks.

	estimated 3788 TPD of cost shall be minimum 20-T capacity and shall be mechanically covered. A 3-tier plantation shall develop under CSR for the stretch of 8 Km of the road from mine to Ghugus Railway Siding. A 3- tier plantation shall also be developed in and around	Coal transportation trucks are covered with Tarpaulin. Avenue plantation has already been done along coal transportation roads & approach roads.
X	the Railway Siding.	Controlled blocking is done during donetime with the
	Controlled blasting shall be practiced with use of delay detonators and only during daytime. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented.	Controlled blasting is done during day time with the use of delay detonators.
Xi	A progressive afforestation plan shall be implemented covering an area not less than 308.8 ha, which includes 190 ha in external OB dumps, 72.20 ha in backfilled area, 21.608 ha vacant/undisturbed area, 6ha along infrastructure and roads, 0.50 ha in township area for colony and 18.5 ha on embankment by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 2500 plants per ha.	A progressive plantation of 158400 nos. covering of area 63.36 Ha has been done till date.
xii	Of the total quarry area of 225.80 ha an area of 83.12 ha is being backfilled of which 72.20 ha shall be reclaimed with plantation and void of 142.68 ha which is proposed to be converted into a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation/ afforestation in case the expansion project along the dip side does not materialize the plantation shall consist of native plant species and shall be	The Naigaon OCM is in operation stage, as the mine progresses, backfilling and further plantation work will be executed. And void of 142.68 Ha will be left for water body with gentle slope and benching. 7.02 Ha physical reclamation and 4.09 Ha biological reclamation has been done as on 31/03/2023.

developed in consultation with the local DFO/Agriculture Department/Suitable institution. The density of the trees shall be around 2500 plants per ha. xiii No ground water shall be used for mining operations. xiv Monitoring of ground water regime and river flow conjunctively shall be undertaken on a regular and long term basis through a network of piezometers/wells taking into account depth and site characteristics. Monitoring for quantity shall be done four times a year in the monitoring report is regularly sent to R CPCB. Converted the local DFO/Agriculture Department/Suitable local DFO/Agriculture Department/Suitable local DFO/Agriculture Department/Suitable institution. The density of the trees shall be around 2500 plants per ha. No ground water is being used for mining oper existing wells M/s. Anacon Laboratories Polyagur for four times a year i.e. during pre-m (May), monsoon (August), post-monsoon (Nov and winter (January) seasons. Quality of ground water regularly sent to R officer, CGWB Nagpur with a copy to MoEFO CPCB.	el from vt. Ltd. nonsoon
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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 shall be submitted to the Ministry of Environment & Forests and to the Central pollution control board quarterly as part of the compliance Report. Copy of ground water monitoring report for No & Oct 2022 has been forwarded via. En rdcr_cgwb@nic.in on dtd. 18/11/2022 waniarea.environdept@gmail.com.	degional &CC &
The Company shall put up artificial ground water recharge measures for augmentation of ground water resource in case monitoring indicates a decline in water table the project authorities shall meet water requirement of nearby village(G) in case the village wells go dry due to watering of mine. Artificial ground water recharge measures had developed nearby villages by deepening of power water requirement in nearby villages is all through providing Boreholes, Hand pumps und activities of the company.	ond etc.
Xvi Sewage treatment plant shall be installed in the existing colony.ETP shall also be provided for workshop and CHP waste water. There is no colony under Naigaon OC mine. The employees of Naigaon reside at Sunder nagar of Niljai OC mine which has 0.5 MLD STP. ETP at workshop is provided of 100 KLD caparates.	colony
Xvii Besides carrying out regular Besides regular periodic health check up of the	;
periodic health checkup of company workers 10% of the workers are chec	king
, , =	nt if

	workers identified from workforce engaged in active mining operation shall be subjected to health check up for occupational diseases and hearing impairment, if any through an health institution/ agency located in the region/district within period of one year and the results reported to this ministry and to DGMS.	any, through health institution/agency within the region and report sent to concerned authority.
Xvii i	For monitoring land use pattern and for post mining land use, a time series of land use maps based on satellite imagery (on scale of 1:5000) of zone and buffer zone form the start of the project until end of mine life shall be prepared one in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.	Restoration/Reclamation Monitoring of all mine of WCL having less than 5 million cum. (Coal+OB) capacity is being done by Satellite and the data is available in the website of WCL. The satellite data for Bellora Naigaon OC mine for year March 2021 is enclosed. The data is submitted to MoEF&CC
Xix	A Final Mine closure plan along with details of corpus fund should be submitted to the ministry of Environment & Forests of final mine closure	Mine Closure Plan is a part of Project Report/ Mining plan and a final mine closure plan was approved by the WCL Board along with opening of a corpus fund / account having account no. 08973161008487 was opened at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on date Rs. 547964949 as on 31.03.2023 (Including the principal along with the interest).
Xx	The project authorities shall in consultation with local administration and Pantheist of the local villages prepare and implement a plan for socio-economic and welfare measures under CSR to be carried out over the balance life of the mine. A budgetary provision of Rs 5 per tonne of coal shall be earmarked for CSR activities for village Bellora, Naigaon. The budget and expenditure thereon village wise and activity wise for CSR shall be displayed on WCL website and also	CIL's CSR policy dtd. 30-12-2015 has been framed as per companies Act 2013, as per notification issued by Ministry of Corporate Affairs, GoI on 27-02-2014 as well as DPE guideline. As per the policy, fund for CSR should be allocated based on 2% of average net profit of the company for three immediate preceding financial years or Rs. 2.00 per tonne of coal production of previous year whichever is higher.

	included as part of Annual	
Xxi	plan. The company shall have a well laid down Environmental policy approved by the Board of Director. The Environment policy shall prescribe for standard operating process/procedures to bring into focus any infringement/deviation/violat ion of the environmental norms/conditions. To provide for checks and balances the company should have a well laid out system of reporting on non compliances/violations of	Coal India Limited (CIL) has formulated a comprehensive Environment Policy only in March 2012, followed by a revised policy in December 2018 approved by CIL Board in its 377th Meeting held on 20th December'2018 for implementation at CIL and its subsidiaries. This Corporate Environment Policy 2018 of CIL was subsequently discussed in the 309th Meeting of the Board of Directors of WCL held on 04.03.2019. After deliberation, WCL Board has adopted the policy in principle for implementation in WCL and the same was communicated vide Ref: WCL/BD/SECTT/BM-309/2019/267 dated 15.03.2019. For monitoring of EC/FC norms & conditions, an online MDMS portal (Mine Data Management
	compliances/violations of environmental norms to the board of Directors of the company and/or shareholders of stakeholders at large.	System) of MoC, GoI is already existing where in the environmental data namely, air quality, water quality, noise quality data are uploaded and regularly updated. In addition to that, compliance report of each condition of EC is also uploaded in the portal and the same is also updated every six months. This management system has the access of CIL & MoC.
B)	General Conditions	Compliance
	General Conditions	Compitance
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment and forests.	Mine working is being done as per approved EC and Project report.
i	technology and scope of working shall be made without prior approval of the Ministry of Environment and	• • • • • •

iv	Fugitive dust emissions (PM10 and PM2.5) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points shall be provided and properly maintained.	Fugitive dust emission from OB dumps has been controlled significantly by developing thick green belt / vegetation over OB dumps. Till date 158400 nos of plantation done in 63.36 Ha. Similarly dust emission from other sources is being controlled by regular water spraying through mobile water tankers in addition to all the road has been black topped and cleaning weigh bridge and coal transportation road also helps to arrest fugitive emission of dust. Mine haul roads are being watered through mobile tankers regularly.
V	Data on ambient air quality (PM10, PM2.5, SO2 and NOz)shall 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 SPM, PM10, NOx & SO2) are being submitted regularly along with six monthly compliance report.
vi	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment .Worker engaged in blasting and drilling operations, operation of HEMM etc shall be provided with ear plugs/muffs.	In order to control excessive noise during operation of HEMM regular maintenance of all HEMM as well as supply of ear plugs and muffs are being provided to the workers engaged in operations. In addition to this regular noise monitoring every fortnight is being done.
vii	Industrial wastewater(workshop and waste water from the mine) Shall be properly collected treated so as to confirm to the Standards prescribed under GSR422(E) dated 19 th May1993 and or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	Mine water after initial sedimentation in the mine sump is pumped out & collected into surface sedimentation pond for further settlement. The dimension of RCC sedimentation tank is 30m x 10.5m x2.5m. ETP of 100 KLD has been provided for workshop waste water & recycled the treated water with Zero discharge
viii	Vehicular emissions shall be kept under control and regularly monitored.	Vehicular emission is kept under control by routine maintenance of vehicles used in operation The tippers carrying coal are optimally loaded and covered fully by tarpaulins.

		T			
ix	Environmental laboratory shall be established with adequate number and type of pollution monitoring and analysis equipments in consultation with the state pollution Control Board.	Monitoring of Environment quality parameter is being done by CMPDIL, RI – IV, Nagpur. A full-fledged NABL accredited environmental laboratory already exists at CMPDI Nagpur.			
X	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information examination on safety and health aspects. Occupational health Surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed and records maintained thereof.	Protective health and Safety wears are provided to workmen exposed to dust namely dust mask, Helmets, safety boots, Goggles, hand gloves etc. as per DGMS specification. The workers are regularly given training on safety and health aspects (Statutory requirement under mines act). Initial medical examination (IME) is done for the workers. Moreover regular health checkups through periodical medical examination (PME) of all the workmen once in 5 years as per the statue and workers above 55 years of age once in a year is conducted. All the works are being carried out with all the safety measures and awareness is being created among employees for safety and to avoid any accidents. Details of PME & IME is given below:			
		Year	PME	Departmental	Contractual
		2017 10	222	IME	IME
		2017-18	233	1	342
		2018-19	0	5	290
		2019-20	11	6	185
		2020-21	4	23	323
		2021-22	20	2	133
		2022-23	79	9	232
xi	A separate environmental management cell with suitable qualified personnel shall be set up under the control of a Senior Executive who will report directly to the head of the company.	headed by Sul Project Nodal General Mana GM (OP) & A level at HQ, h	O Area Months Area Notes to Area Notes to Barbar Marea Months Readed by Area Months Readed Marea Months Readed Marea Months Readed Marea M	dal Officer (Env	evel, Area nd is assisted by), at corporate ger (Env) with a
xii	The funds earmarked for	Environment	funds ar	e maintained se	parately and not
	environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry	been diverted pertaining to t suppression, E	for any ree plar ETP & S	other purposes. ntation, consent for the second sec	Expenditure fees, dust oment work etc.

	and its Regional Office	Sr.	Year	Amount (in Rs.)
	at Bhopal	No. 1	2014 – 15	6502765.00
		2	2014 – 13	8485627.00
		3	2016 – 17	27890683.00
		4	2017 – 17	5923582.00
		5	2017 – 18	1476318.00
		6		
		7	2019-20	4708627.22
			2020 -21	8200369.00
		8	2021 - 22	10377576.00
		9	2022-23	13006700.00
xiii	The Regional office of this ministry located at Bhopal shall monitor compliance of	Rs. 0 expen mount All as inform	34 Crores has been diture in FY-2022-2 ted mist cannon. sistance required by nation/ monitoring in	23 against one no truck 7 furnishing data/ report etc. is being provided
	the stipulated conditions. The Project authorities shall extend full cooperation to the office(s) of the regional Officer by furnishing the requisite data/information/monitoring reports.			gional Office of MoEF&CC.
xiv	A copy of the will be marked to concerned Panchayat/ local NGO, If any from whom any suggestion/representation has been received while processing the proposal.		marked to concerr	ental clearance letter has ned Sarpanch of the Village
xv	State Pollution control Board shall display a copy of the clearance letter at the Regional office, District Industry centre and collector's office/ tehsiladas's office for 30 Days.	Not a	pplicable	
xvi	The project authorities shall 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 within seven days of the clearance letter	paper	(English – Lokmat	been published in news Times, Hindi thi Lokmat, Nagpur)

		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://encfor.nic.in	
	3	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted
からかいてでは、大手の一般が対対の	4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provision of the environment (Protection) Act, 1986.	Noted
	5	The above conditions will be enforced inter-alia, under the Provisions of the water (Prevention & control of Pollution) Act 1974, The Air (Prevention & Control of Pollution) Act 1981, the environment(Protection) Act,1986 and the public Liability Insurance act, 1991 along with their amendments and rules.	Noted

Yours faithfully

Sub Area Minager Niljai Sub Area