Six Monthly Compliance Report of conditions stipulated in Environmental Clearance

of

Junad Open Cast Mine

(Letter No. J-11015/225/2014-IA-II(M) dtd. 09.09.2015 Capacity enhancement from 0.60 MTPA to 1.50 MTPA & increase in land Area from 174.28 Ha. to 449.63 Ha.)

OCT 2022 to MARCH 2023





WESTERN COALFIELDS LIMITED
Wani North Area

Six Monthly Status of Compliance of Environmental Clearance Conditions

Junad Deep Open Cast Coal Project (1.50 MTPA), Western Coalfields Limited

(MoEF & CC EC Letter No. J-11015/225/2014-IA.II(M) dtd. 09.09.2015)

Sr. No.	CONDITIONS	COMPLIANCE
A	SPECIFIC CONDITIONS	
i	The Maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC	Coal production will not exceed 1.50 MTPA as prescribed in the Environment Clearance.
ii	The validity of the EC is for the life of the Mine or as specified in the EIA notification, 2006, whichever is earlier.	Agreed and shall be complied
iii	Adequate precautions shall be taken for safety of nearby township and minimizing the dust pollution.	dust control; rain guns, mobile water
	For any forest land covered under the project, forest clearance shall be obtained before operating the coal mine.	project.
	The general conditions as applicable for opencast mining project shall strictly adhere to.	applicable for opencast mining project shall
vi	mechanically covered trucks.	be strictly complied. At present coal transportation trucks are covered by tarpaulins. Efforts will be made to explore the availability of mechanically covered trucks.
	마다 전에 가는 사람들이 되는 사람들이 되었다. 그는 말이 되었는데 그렇게 되었다면 이번 바다 보는 사람들이 되었다. 그는 사람들이 바다를 하고 있는데 바다를 하고 있다면 하는데 그렇게 되었다면 하는데 그렇게 그렇게 되었다면 하는데 그렇게 그렇게 되었다면 그렇게	Coal is loaded by pay loader to the tippers in pit and transported to siding and loading of coal at siding is also being done by pay
The Part States Laws	The production shall be within the same mining lease area.	mining leace area
The Table States	end of the mining.	The OB shall be completely re-handled &
	m. the void area will be converted into water body. The rest of the area will be back filled upto the ground level and covered with about a meter thick top soil and put to use.	These instructions shall be complied accordingly at the final stage of working.
xi		Garland drains have already been provided around the OB dump and periphery of the mine.
The large	adjacent to the mine.	Appropriate embankment has been provided along the side of Wardha river flowing near to mine.
xiii	The land after mining shall be brought back for agriculture purpose.	Agreed, the land after mining shall be brought back for agriculture purpose.

xiv		which acts as a pre-sedimentation tank. A suitable Sedimentation tank of size 20m x 8 m x 3m is provided on the surface of the mine. Mine water is being discharged through it				
XV	produced which should be adjusted as per the annual inflation.	As possible all profit precedors	coal existing company, the full located based of the Company ding financial years of the production of the coal coal coal coal coal coal coal coal	modified and for the modified of the modified	the average three immed 2.00 per	hould ge net ediate tonne
xvii	Everybody in the core area should be provided with mask for protection against fugitive dust emissions.	All that are b	eing provided	cing in constant	sk for prot	ection
	- Baron.	Dust mask is being provided to everyone				
xviii	responsible for ensuring compulsory regarding wearing of dust mask in the core area.	Being	g complied acco	rdingly.		
X1X	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.	for a	ll the employe once in three year	es work ars.	ing within	core
XX	The mining area should be grounded by green belt having thick closed thick canopy of the tree cover.	under	nos. of plants plantation is as Location	have been follows- Area (Ha)	n planted. No. Species Plants	Area
		Speci Bamb Sagw In a	oo, siwan, Kan, sicco, neem, ddition to the	26.03 hair, can etc.	belt wi	os nohar,
xxi	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river from side and stabilized with plantation so as to withstand the peak	been constructed along the mine boundary so as to withstand the peak water flow and prevent mine inundation. The embankment is				
xxii	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.	All precautions have been taken to prevent overflow of OB into the river and agriculture				
xxiii	OB shall be stacked at two earmarked external OB dumpsite (s) only. The ultimate slope of the dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be	overflow of OB into the river and agriculture fields as per given conditions. OB will be stacked at earmarked external OB dump sites within ML Area. The details of existing external OB dump is follows: For Dip dumps:- height- 60 mtrs, benches- 05				

Forests & Climate change and its concerned 400 mtrs), slope -28 deg active dump. Regional Office on yearly basis. South dump -Height- 50 mtrs, benches-04 (Ht of each stages 9mtrs, 12 mtrs, 8mtrs, 13 mtrs). Width (Top-150 mtrs, Bottom -300 mtrs) Slope- 22 deg active dump. The present external OB dumps have been placed in the dip side on coal bearing area. This has been done on the basis of economics considering the lead distance for OB dumping as well as to reduce the adverse impacts on Wardha River. At present this OB dump can not be taken up for plantation as these dumps are proposed to be re-handled during the future extension of the mine. The present working edges which are at a depth of about 72 m will be extended further dip side up to about 170 m depth i.e 1:10 coal OB ratio line by re-handling the existing OB dumps and relocating them beyond 1;10 coal OB ratio line. Catch drains and siltation ponds of appropriate XX1V Catch drains of appropriate size have been size shall be constructed to arrest silt and constructed to arrest silt and sediments sediment flows from soil, OB and mineral flowing from OB dumps and drainage has dumps. The water so collected shall be utilized also been provided in OB benches and coal for watering the mine area, roads, green belt benches to carry silt and sediments into the development etc. the drains shall be regularly mine sump provided at the floor of the seam. desilted and maintained properly. Garland The catch drains around embankment has drains (size, gradient and length) and sump already been constructed. The total length is capacity shall be designed keeping 50% safety about 4.0 km and the dimensions of the catch margin over and above the peak sudden rainfall drains are approximately 2m x 4m. The sump and maximum discharge in the area adjoining is of dimension 800 x 60 x 4 m which is the mine site. Sump capacity shall also provide adequate to deal with peak sudden rainfall. adequate retention period to allow proper This sump provides adequate settlement time settling of silt material. for suspended particles. Thereafter, the same water is pumped out on surface and fed into surface sedimentation pond of size 20 x 8 x3 Dimension of the retaining wall at the toe of the | As indicated above, the run off from the OB dumps and OB benches within the mine to dumps are collected in the catch drains made check run-off and siltation shall be based on the around the periphery of the dumps rainfall data. (dimensions of catch drains given above) for collecting run off and Siltation from OB benches, main sump as detailed out above, is in operation and acts as main settling/Siltation pond. The capacity of this sump has been made to cater the entire peak rainfall in the catchments area (capacity approximately 6.00 lakh Cum). As such, construction of retaining wall at the toe of the dumps and OB benches is not required. Moreover as explained earlier, the existing OB dumps will be re handled during the future extension of the mine as such retaining wall is not practically feasible. From the above it can be seen that all possible measures have been taken to arrest flow of silt

mtrs, 11 mtrs), Width (Top-200 mtrs, Bottom-

submitted to the Ministry of Environment,

		Furth biolo	ediments from er, the OB gically reclain	dumps and	are also pa balance will
		OB d	up in subsequ umps have bee bearing area als	ent phase n placed i	s. Moreover, in the dip side d chances of
		the c	se impact on Very posite side). See of flow of si	So there	is hardly a
		dump	thereby affe	ecting the	natural wa
xxvi	Crushers at the CHP of adequate capacity for the expansion project shall be expansion	There	es adversely.	at Innad	OC mino
	with	existi	no CHP at Pin	mnalgaan	OCM 551
	men children bag inters, water sprinkling	away	from the mine	is being n	head
	system shall be provided to check flightive	A11	precautions i	ncluding	regular wa
	chinssions from crushing operations, conveyor	sprin	kling and cov	ering wit	h GI sheet
	system, haulage roads, transfer points, etc.		taken to preve		
:		partic			A TORREST
XXVI ;	Drills shall be wet operated.	All th	ne drills working	ng in the	mine are hav
vvvi	The project at the second	wet d	rilling arranger	nents.	of der tage of the
ii	The project authorities shall undertake regular	All	the internal r	oads are	either cem
**	repairing and tarring of roads used for mineral	conci	eted/WBM/tari	red and r	egular repair
	transportation. A 3-tier green belt comprising of	and t	arring of these	roads sha	ll be carried
	a mix of native species shall be developed all along the major approach roads.	as &	when requir	red. Plan	tation is be
	arong the major approach roads.	Continue to the state of the st	oped regularly		
			ing various in	itrastructu	res, along h
		wood			
			(permanent t	ype) coal	
		road	(permanent to	ype) coal & OB dun	nps with varie
		road nativ	(permanent to embankments & e species	ype) coal & OB dun through	nps with various State For
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		road native Depa 2000. Area Sl.	(permanent trembankments & species rtment. The der 2500 plants/ha	ype) coal & OB dun through asity of the Area	lows- No. of
		road native Depa 2000	(permanent trembankments & species rtment. The der 2500 plants/haunder plantation	ype) coal & OB dun through asity of the	ops with varied State For e trees is around the lows- No. of Species
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xxix	Controlled blasting shall be practiced with use	road native Depa 2000 Area Sl. No Spec Baml Sagw Conti	(permanent trembankments & species rtment. The der 2500 plants/ha under plantation OB Dumps Vacant land along road Total ies:- oo, siwan, kan, sicco, neem rolled blasting	ype) coal & OB dunthrough asity of the Area (Ha) 17.50 08.53 Chair, can a, etc. is being decreased as the coal of the coal	No. of Species Plants 43750 nos. 21325 nos 65075 nos lone using de
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xxix	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.	road native Depared 2000. Area Sl. No Special Bambas Sagware Contraction meas to arrespond to arresponding to the contraction of the	(permanent treembankments & species rtment. The derection to the control of the c	ype) coal of OB dunthrough in is as follows. In is as follows. Area (Ha) 17.50 08.53 Chair, can desired in daytime of grounds are under the coal of gro	No. of Species Plants 43750 nos. 21325 nos 65075 nos lone using dete. All mitigate and vibrations ertaken.
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	spaces in and around the mine and a 3-tier avenue plantation along the main approach roads to the mine.	planting of native species. The density of plantation is maintained at 2500 plants/ha.
XXX	An estimated total 60.95 Mm³ of OB will be generated during the entire life of the mine. Out of which 60.95 Mm³ of OB will be dumped in two external OB dumps an earmarked area covering 175 Ha of land. There will be no internal OB dump. The maximum height of external OB dump will not exceed 60m. the maximum slope of the dump shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self-sustaining and compliance status shall be submitted to MoEF&CC and its Regional Office on yearly basis.	The details of existing external OB dump is follows: For Dip dumps:- height- 60 mtrs, benches- 05 (Height of each benches -14 mtrs, 13 mtrs, 12 mtrs, 11 mtrs), Width (Top-200 mtrs, Bottom-400 mtrs), slope -28 deg active dump. South dump -Height- 50 mtrs, benches-04 (Ht of each stages 9mtrs, 12 mtrs, 8mtrs, 13 mtrs). Width (Top-150 mtrs, Bottom -300 mtrs)
xxxi	The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	The restoration and reclamation plan for the degraded area shall be prepared and the land
xxxi ii	Compensatory Ecological & restoration of waste land, other degraded land and OB dumps in lieu of breaking open the land be carried out.	waste land, other degraded land and OB
xxxi v	The mining should be phased out in sustainable manner.	
XXXV	No groundwater shall be used for mining operations.	
	The total quarry area of 101.70 Ha. The depth of void will be 170 m, which is proposed to be converted into a water body with the maximum depth of 40m having gently sloped and the upper benches shall be terraced and stabilized with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture department. The density of the trees shall be around 2500 plants per ha.	These instructions shall be complied accordingly.
ii	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity	Monitoring is being done by 3 rd party agency. The reports are being submitted along with
	new prezenteters. The mental series	

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	shall 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 & Climate change and tot eh central Pollution control board quarterly within one month of monitoring.	
iii	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby village(S) in case the village wells go dry due to dewatering of mine.	situated at the resettled Borgaon village near the mine has been de-silted. This pond is now acting as a water reservoir for augmenting the ground water resources in the vicinity and
xxxi	Sewage treatment plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP wastewater.	Sewage treatment plant of 0.6 MLD has been
x1	Besides carrying out regular periodic health check-up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, through an specialized agency/institution within the District/state and the results reported to this ministry and to DGMS.	occupational diseases and hearing impairment, if any, is being held for all the employees working within core area once in three years.
xli	Land oustees shall be compensated as per the norms laid out R&R policy of CIL or the National R&R Policy or R&R Policy of the state government whichever is higher.	per Coal India Limited's policy.
	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 the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for nay one particular season which is consistent in the time series), and the report submitted to MOEFCC and its concerned Regional Office.	maps, based on satellite imagery for monitoring land use pattern is regularly uploaded on the WCL's website www.westerncoal.in. The same is also submitted along with the Six-monthly EC compliance report
xliii		per the guideline of Ministry of Coal, and the same is approved by WCL Board on
	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.	It is already under implementation by the WCL and shall be complied in future also.

, xlv	Corporate Environment Responsibility: 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 operation process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.	Limited, approved by Board of Directors already exists. The Environment Policy of the Company shall be strictly complied as per norms.
	c) The hierarchical system or Administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Sub Area Manager and is assisted directly by Nodal Officer (Environment)/ Sr. Manager (Civil) at project level. AGM of the Area heads the cell assisted by Area Nodal Officer (Environment) at Area level. GM (Environment) heads the Environment Department at HQ /Corporate level with a multidisciplinary team of qualified and trained Engineers.
	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 company and/or shareholders or stakeholders at large.	The company already has a system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and proper checks
В	General Conditions:	
i	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate change.	scope will be made without prior approval of
ii	No change in the calendar plan of production for quantum of mineral coal shall be made.	No change in the calendar plan will be made without prior approval.
iii		have already been established for monitoring PM_{10} , $PM_{2.5}$, SO_2 and NO_X . Monitoring is being done fortnightly on all stations. Location of the stations was decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the state pollution control board as under:
iv	Data on ambient air quality (PM ₁₀ , PM _{2.5} , SO ₂ and NO _X) and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be	(1) Security Check Post Data on ambient air is regularly being submitted to the Ministry including Regional Office, and also to Pollution Control Board.
	regularly submitted to the ministry including its concerned Regional Office and to the state pollution control board and the central pollution	parameters are being done by CMPDIL.

	control board once in six months. Random verification of samples through analysis from independent laboratories recognized under the EPA rules, 1986 shall be furnished as part of compliance report.	
V	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	near HEMM, blasting, drilling operation etc. In addition to that thick plantation has been
vi	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	to surface sedimentation pond for further settlement. The quality of treated effluent from sedimentation pond is monitored every fortnight. Similarly, Industrial waste water
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.	Vehicular emission is under control. Vehicles used for transporting the mineral outside the
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 state pollution control board and data got analyzed through a laboratory recognized under EPA rules, 1986.	Monitoring of environmental quality parameters is being done by CMPDIL, Regional Institute - IV, Nagpur (an ISO certified consultant), which is having a NABL accredited Centralized Environmental
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.	supplied with and they are being provided
X	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. The quality of environment due to outsourcing and the health and safety issues of the outsourced manpower should be addressed by the company while outsourcing.	once in three years for every employee of the mine.
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.	Sub Area Manager and is assisted directly by

•			Department at HQ /Corporate level with a multidisciplinary team of qualified and
H	xii	The finds commented for	trained Engineers.
	XII	The funds earmarked for environmental	Being complied.
		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 and its concerned	
		Regional Office.	
	xiii	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 conserved.	accorded Environmental Clearance along with a copy of the EC letter has been posted at the
		vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the	advertised in two local newspaper of Marathi language. Advertisement was published in the
		clearance letter is available with the state	Darshan dated 20.09.2015 and Vidarbha
		pollution control board and may also be seen at	Matdar dated 20.09.2015).
		the website of the ministry of Environment,	
	•	forest & climate change at http://envfor.nic.in	
2	XIV	A copy of the environmental clearance letter	
		shall be marked to concern	had been given to Sarpanch, Pimpalgaon-
		Panchayat/Zilaparishad, Municipal corporation	Junada-Boregaon Gut-Gram Panchayat vide
		or Urban local body and local NGO, if any from	letter no.829 dtd.20.11.15.
		whom any suggestion/representation has been	Copy of the clearance letter has been
		received while processing the proposal. A copy	displayed on Western Coalfields Limited
		of the clearance letter shall also be displayed on	website: www.westerncoal.gov.in
		company's website.	
2	XV	A copy of the environmental clearance letter	Copy of the clearance letter has been
		shall also be displayed on the website of the	displayed on WCL's website :
		concerned state pollution control board. The EC	www.westerncoal in
		letter shall also be displayed at the Regional	
		Office, District industry sector and collector's	
	OHUTTON STREET	Office/Tehsildar's Office for 30 days.	
V			
A	VI	The clearance letter shall be uploaded on the	The clearance letter has been uploaded on the
		company's website. The compliance status of	WCL's website www.westerncoal.in. The
		the stipulated environmental clearance	updated compliance status of the stipulated
	ACCOUNT TOWER DISCOUNTS	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 (air, water,	
		noise and soil) and critical pollutant such as	[발발] 다른 그는 그는 그는 그는 가게 많은 그는 그를 살아보는 그는 것이 모든 이를 들었으므로 그렇게 되었다면서 가는 것이 되는 것이 되는 것이 되는 것이 없는 것이 없어요. 되었다면 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없어요. 없어 없어 없어 없어 없어 없어 없어 없어 없어 없었다면 없었다면 없어 없었다면 없어 없었다면 없어 없었다면 없었다면 없어 없었다면 없어 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면 없었다면
		PM ₁₀ , PM _{2.5} , SO ₂ and NO _X (ambient) and	
	17/200	critical sectoral parameters shall also be	
		displayed at the entrance of the project premises	
	THE STATE STATE	에 보통하는 사용하는 사용하는 사용하는 사용하는 사용하는 보고 있다. 그는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하	
		and mine office and in corporate office and on	
		company's website.	
XV		The project proponent shall submit six monthly	
		compliance reports on status of compliance of	
		the stipulated environmental clearance	
		conditions (both in hard copy and in email) to	submitted to the Regional Office, MoEF&CC
20		the respective Regional Office of the Ministry,	
		respective zonal office of CPCB and the SPCB.	
xvi		The regional office of this ministry located in	The project authorities will engues 9 1
	1	the region shall monitor compliance of the	full cooperation to the essential
		stipulated conditions. The project outhorities	Regional Office by family office(s) of the
1 W C 1		supulated contamons. The project aumornies	Regional Office by furnishing the requisite

	shall extend full cooperation to the office(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	
xix	The environmental statement for each financial year ending 31 st march in Form-V is mandated to be submitted by the project proponent 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 email.	year 2021-22 has been submitted (Copy enclosed)

Colliery Manager
Junad OCM

S.O.E (Civil) / N.O. (Env.)
Ukni-Junad Sub Area

Sub Area Manager Ukni-Junad Sub Area