

**Environmental Compliance report of Niljai Expansion (Deep) OC Mine from 3.50
MTPA to 4.5 MTPA in 1761.22 Ha area
Ref No. J-11015/261/2011-IA. II(M) dtd. 20.03.2020
PERIOD: 01/04/2022 TO 30/09/2022**

Sr. No.	Condition	Compliance status (30.09.2022)
i.	The project proponent shall obtain Consents to Establish/Operate from the State Pollution Control Boards for the proposed peak capacity of 4.5 MTPA (Peak) prior to commencement of the increased production	The project proponent has obtained statutory consent from State Pollution Control board before production of enhanced quantity. The Consent to Establish and Operate for 4.50 MTPA capacity by Maharashtra Pollution Control Board vide ref No. No. /Format1.0/CC/UAN No. 0000090513/CO – 2005000269 dtd. 08.05.2020 valid till 31.03.2021 (got approved through circulation agenda and was communicated through email ast@mpcb.gov.in dtd. 23.03.2020 to email id waniarea.environdpt@gmail.com but consent copy issued late due to COVID 19). Renewal of consent approved vide Format1.0/CAC/UAN No. MPCB- CONSENT 0000107964/CR/2204000651 dtd. 12/04/2022 valid till 31/03/2023.
ii.	Transportation of coal from Coal Handling Plant shall be through covered trucks.	All the trucks moving in and out from mine premises are completely covered with tarpaulin.
iii.	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers	Mining is done by Shovel dumper method. Wet drilling method is used for drilling hole for charging of explosive. Controlled blasting is practiced to ensure minimal dust and sound generation. Coal is then transferred to Coal Handling Plant (CHP) where coal crushing takes place. To control fugitive dust emission, CHP is enclosed with Galvanised Iron sheets from three sides and at the coal feeding point, rubber sheets have been placed. Details of sprinklers are given below: 1. Sprinklers from Niljai (N) CHP to weighbridge – 15 Nos. 2. Sprinkler in and around Niljai (S) CHP – 02 Nos. 3. Sprinkler near checkpost – 03 Nos. 4. CHP feeding pt. – 35 Nos. nozzles 5. Inside CHP- 60 Nos. misting nozzles at each CHP
iv.	Mitigating measure shall be undertaken to control dust other fugitive emission all along the roads by providing sufficient water sprinklers. Adequate corrective measure shall be undertaken to control	In order to control fugitive dust emission along road, following tankers are provided: 1. 12 KL – 1 No. hired water tanker is deployed on coal transportation road on daily basis. 2. 28 KL - 2Nos. departmental water tanker is deployed at haul roads and in mining area. 3. 20 KL – 3 Nos. water tanker is deployed at contractual patch of M/s. Gaurav contracts

	dust emission, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system green belt, dust suppression arrangement at loading and unloading points, etc.	4. 20 KL – 7 Nos. water tanker is deployed at contractual patch of M/s. H D Gaurav Details of sprinklers are given below: 1. Sprinklers from Niljai (N) CHP to weighbridge – 15 Nos. 2. Sprinkler in and around Niljai (S) CHP – 02 Nos. 3. Sprinkler near checkpoint – 03 Nos. 4. CHP feeding pt. – 35 Nos. nozzles 5. Inside CHP- 60 Nos. misting nozzles at each CHP																												
V	Continuous monitoring of occupational safety and other health hazards, and the corrective action need to be ensured.	<p>Continuous monitoring of occupational safety and health hazard is conducted by periodical medical examinations. 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.</p> <p>All the activities within the mine are carried out with complying safety aspect and regular awareness is created among employees regarding safety and to avoid any accidents.</p> <table><tr><th>Sr. No.</th><th>Year</th><th>PME (Person in Nos.)</th><th>IME (contractual)</th></tr><tr><td>1</td><td>2017</td><td>513</td><td>258</td></tr><tr><td>2</td><td>2018</td><td>447</td><td>80</td></tr><tr><td>3</td><td>2019</td><td>441</td><td>686</td></tr><tr><td>4</td><td>2020</td><td>209</td><td>534</td></tr><tr><td>5</td><td>2021</td><td>256</td><td>408</td></tr><tr><td>6</td><td>2022</td><td>16</td><td>0</td></tr></table>	Sr. No.	Year	PME (Person in Nos.)	IME (contractual)	1	2017	513	258	2	2018	447	80	3	2019	441	686	4	2020	209	534	5	2021	256	408	6	2022	16	0
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Vi	Persons of nearby villages shall be given training on livelihood and skill developments to make them employable.	<p>Skill development training is provided to project affected people of all mines of Wani Area at Vocational Training Center, Ghugus of regular basis.</p> <p>Due to COVID-19 pandemic situation, no training has been provided in FY 2020-21.</p> <p>The details of Skill development program is give below:</p> <table><tr><th>Sr. No.</th><th>Trade</th><th>Duration</th><th>Days</th><th>Participant</th></tr><tr><td>1</td><td>Welding & Fabrication</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>35</td></tr><tr><td>2</td><td>Electrician</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>40</td></tr><tr><td>3</td><td>Agrobased</td><td>15/10/2015 to 05/11/2015</td><td>18</td><td>20</td></tr></table>	Sr. No.	Trade	Duration	Days	Participant	1	Welding & Fabrication	15/10/2015 to 05/11/2015	18	35	2	Electrician	15/10/2015 to 05/11/2015	18	40	3	Agrobased	15/10/2015 to 05/11/2015	18	20								
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vii	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be develop to mitigate/ check the dust pollution.	Plantation of 20,000 nos. saplings in 2020 and 36000 Nos. in 2021 has been done along the downwind side of mine. 51000 Nos. of plantation is proposed to be planted in 2022-23, till Sept 2022, 35000 Nos. of saplings have already been planted.																																								
viii	Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	For dust suppression and firefighting mine water is used. And for drinking purpose Wardha river water is utilized.																																								
ix	Distance from the mine and OB Dump shall be 150 m away from Wardha river all along the bank of river	OB dumping has been done at a distance of min. 1.2 km and max 2.5 km away from river. Plantation of 379555 Nos. of plants has been done on the OB dumps and embankment in a total area of 151.80 Ha.																																								

x	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhance capacity of 4.5 MTPA (Peak).	Approval for Groundwater from CGWA is being obtained vide letter no. CGWA /NOC /MIN /ORIG /2020 /7434 dtd. 25.02.2020 valid till 24.02.2022 Copy enclosed. Further application for renewal of consent have been applied.
xi.	Continuous monitoring of occupational safety and other health hazards, and the corrective action need to be ensured.	Regular PME of workers are undertaken to identify any health hazard. Details provided in Sr. No. V.
xii.	A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI/NEERI/IIT or any other expert agency identified by the Ministry.	EC has been obtained on 20/03/2020. The Third party assessment of EC compliance shall be undertaken through agency like ICFRI/NEERI/IIT or any other expert agency identified by the Ministry within 3 years i.e. by 20/03/2023.
xiii	Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles.	Grassing at active OB dump will be carried out.
xiv	Compliance of the non-compliance/partial compliance conditions of EC dated 12th October, 2015, certified by Regional Office, Nagpur vide its Letter dated 27 th November, 2019. The PP shall complete all non-compliance/partial compliance conditions in one year and the Action taken report shall be submitted to the Regional Office of the MoEFCC.	Compliance of all the conditions have been made. Copy is enclosed.
xv	Project proponent to plant 100,000 Nos. of native trees with broad leaves along the village and 50,000 Nos of native trees along transportation route to prevent the effect of air pollution in 2 years. After compliance of tree plantation, number of trees shall be duly	Plantation of saplings of Native species (Mix fruits, medicinal, woody plants etc.) has been done between mine and villages, details given below: 1. Jan 2021- 20,000 Nos. (8.00 Ha) 2. June 2021- 38,000 Nos. (15.20 Ha) 3. July 2022- 51,000 Nos (20.40 Ha) (35,000 Nos. completed till Sept 2022) Total number of Plantation done from 1994 -95 to 2021-22 is 704205 Nos. in total area of 281.70 Ha of land.

	endorsed from District Forest Officer.	<p>Plants like Teak, Sivan, Neem, Arjun, Gulmohar, Casia, Rain tree etc. have been planted.</p> <p>Coal transportation road is part of old embankment where already plantation exists. Plantation of 3,79,555 Nos. in 151.80 Ha of OB Dump and embankment has been done.</p> <p>Details of plantation in mine upto 2021-22:</p> <table><tr><th>Sr. No.</th><th>Location</th><th>Plants (in Nos.)</th><th>Area (in Ha)</th></tr><tr><td>1</td><td>OB Dump and embankment</td><td>379555</td><td>151.8</td></tr><tr><td>2</td><td>Plain area (Rationalization area, Blasting zone)</td><td>317650</td><td>127.1</td></tr><tr><td>3</td><td>Avenue</td><td>7000</td><td>2.8</td></tr><tr><td></td><td>Total</td><td>704205</td><td>281.7</td></tr></table>	Sr. No.	Location	Plants (in Nos.)	Area (in Ha)	1	OB Dump and embankment	379555	151.8	2	Plain area (Rationalization area, Blasting zone)	317650	127.1	3	Avenue	7000	2.8		Total	704205	281.7
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xvi	The activities and fund provision for CER shall be made as per the guidelines issued by the ministry regarding CER on 1 st May, 2018.	<p>MoEF& CC notification on CER dated 01-05-2018, mandates allocation of fund for CER for the new project based on the capital investment and for expansion projects, fund allocation is based on the additional capital budget investment.</p> <p>Whereas Niljai Deep Expansion OC is an expansion project with only expansion in production capacity with existing land area, manpower and infrastructure without any additional investment. The expansion does not involve any additional land, HEMM, Manpower and P & M. So, as per the CER Notification by MoEF& CC dated 01-05-2018, no CER fund has been provisioned.</p> <p>However, under CILs CSR policy, the development activities like infrastructural development works, health care & educational facilities in neighboring villages as per the requirement will be undertaken.</p>																				
xvi i	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near village and also explore deployment of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damage caused to habitation/structures due to blasting activity.	Blasting permission from DGMS for conducting mining operation have been obtained. And blasting is done as per guidelines of DGMS																				

xvi ii	The project Proponent shall comply with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied, if any, for illegal mining paid by the Project	Noted. No illegal mining has been done.
xix	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 can only be common after conducting detailed hydrogeological study and necessary permission from the CWGA. The report on six monthly basis on changes in Ground water level and quality shall be submit to the Regional Office of the Ministry, CGWA and State Pollution Central Board.	Approval for Groundwater from CGWA is being obtained vide letter no. CGWA /NOC /MIN /ORIG /2020 /7434 dtd. 25.02.2020 valid till 24.02.2022 for Ground Water abstraction/ dewatering quantity 8629 m3/ day. Copy enclosed. Self compliance of NOC conditions has been submitted on NOCAP portal of CGWA. Renewal application for groundwater NOC having abstraction/ dewatering quantity 9468 m3/day as per Impact Assessment Report of groundwater modelling, have been submitted for further 2 years.
xx	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the worker engaged in the Project and maintain records accordingly; also, Occupational health check-ups for worker having some ailments and necessary remedial/preventive measure taken	At Area level Rajiv Ratan Centralized Hospital exists equipped with all the facility where regular Initial Medical examination (IME) and Periodical Medical Examination (PME) of all workmen, once in 5 years as per the statute and workers above 55 years of age once in a year of the workers are conducted. Even dispensary is also located within the Niljay Sundernagar colony with paramedical staff. To attend any emergency situation, one ambulance is present at mine, one ambulance is present at dispensary and 3 Nos. ambulance is present at Rajiv Ratan Central Hospital (Area Hospital). All the ambulances are available for 24x7.

	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.																																	
xxi	Proponent shall follow the mitigation measure provided in Office Memorandum No. Z-11013/57/2014-IA.11 (M), dated 29 th October, 2014, titled “Impact of mining activities on Habitation Issues related to the mining Projects wherein Habitations and village are the part of mine lease areas or Habitations and village are surrounded by the mine lease area”. Limits for day light/night hours.	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.Z-11013/5712014- IA.I1 (M) dated 29th October, 2014.																																
xxii	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 for 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	All the illumination in the mine is done in such a way that lighting (flood lights) won’t disturb any nearby villages. The sound created due to blasting is avoided by scheduling blasting at post noon 4.00pm by controlled blasting method. The day and night noise level is monitored on fortnightly basis and reports are well within the prescribed limits. The noise level recorded in colony of Niljai OC mine is given below: <table><tr><th>Sr. No</th><th>Date</th><th>Day Time (Noise level in dB(A)</th><th>Night Time (Noise level in dB(A)</th></tr><tr><td></td><td></td><td>55</td><td>45</td></tr><tr><td>1</td><td>15-04-2022</td><td>46.2</td><td>44.4</td></tr><tr><td>2</td><td>25-04-2022</td><td>44.5</td><td>41.4</td></tr><tr><td>3</td><td>11-05-2022</td><td>44.5</td><td>42.1</td></tr><tr><td>4</td><td>25-05-2022</td><td>45.5</td><td>43.4</td></tr><tr><td>5</td><td>10-06-2022</td><td>43.9</td><td>42.6</td></tr><tr><td>6</td><td>25-06-2022</td><td>44.5</td><td>42.1</td></tr></table>	Sr. No	Date	Day Time (Noise level in dB(A)	Night Time (Noise level in dB(A)			55	45	1	15-04-2022	46.2	44.4	2	25-04-2022	44.5	41.4	3	11-05-2022	44.5	42.1	4	25-05-2022	45.5	43.4	5	10-06-2022	43.9	42.6	6	25-06-2022	44.5	42.1
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	well within the prescribed limits for day light/night hours	7	08-08-2022	45.4	43.1
			24-08-2022	45.2	43.8
			08-09-2022	43.4	42.2
			26-09-2022	42.8	41.1
xxi ii	The project proponent shall take all precautionary measure during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	There is no endangered flora/fauna as per baseline data generated for Flora and Fauna in Environment Impact Assessment / Environment Management Plan. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna.			
xxi v	Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2041, Common Cause vs Union of India &Ors vide its judgment dated 8 th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to be effect that the mining lease holder 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 fit for growth of forest, flora, fauna etc.	Noted and will be complied after mining operation is ceased. Re-grassing of mining and other disturbed area will be done and report will be submitted to Regional Office MoEF&CC.			

	Compliance of this condition after the mining activity is over at the cost of the mining lease holder/Project Proponent". The implementation report of the above said condition shall be sent to the Regional Office of the MoEFCC	
xx v	PP shall conduct scientific study on slope stability of external and internal OB dumps as well as for final slope of quarry batter in 1 year and action plan for implementation of recommendation shall be submission to Ministry's Regional Office.	A scientific study on Slope Stability of Niljai OC has been carried by BIT, Mesra Ranchi on 2019. In the report it is certified that factor of safety of Internal dump, external rock, external black cotton soil dump, Quarry batter comprising of argillaceous rock and black cotton soil of Niljai OC is more than stipulated factor of safety of 1.05 – 1.10, thus dump and quarry batter is safe with recommended geometry of quarry batter.
xx vi	PP shall implement Surface miner for mining activity and input conveyor through silo loading for evacuation of coal from pit incase of further expansion.	Due to the mine seam gradient use of surface miner is unfeasible.
4.1	The grant of environmental clearance is further subject to compliance of the Standard EC condition as under.	
	(a) Statutory compliance	
i.	The project proponent shall obtain forest clearance under the provision of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	No forest land involved.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Clearance from National Board for Wildlife is not applicable.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan/ Wildlife Management Plan and	No schedule - 1 species are present in the mine area. The copy of Fauna details are enclosed. Thus no site specific conservation plan/ wildlife management plan is needed.

	approved by the Chief Wildlife Warden. The recommendation of the approved Site-Specific Conservation plan/Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-1 species in the study area)	
iv.	The project proponent shall obtain Consent to Establish/Operate under the provision of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	The project proponent has obtained statutory consent from State Pollution Control board before production of enhanced quantity. The Consent to Establish and Operate for 4.50 MTPA capacity by Maharashtra Pollution Control Board vide ref No. No. /Format1.0/CC/UAN No. 0000090513/CO – 2005000269 dtd. 08.05.2020 valid till 31.03.2021 (got approved through circulation agenda and was communicated through email ast@mpcb.gov.in dtd. 23.03.2020 to email id waniarea.environddept@gmail.com but consent copy issued late due to COVID 19). Renewal of consent approved vide Format1.0/CAC/UAN No. MPCB- CONSENT 0000107964/CR/2204000651 dtd. 12/04/2022 valid till 31/03/2023.
v.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	Approval for Groundwater from CGWA has been obtained vide letter no. CGWA /NOC /MIN /ORIG /2020 /7434 dtd. 25.02.2020 valid till 24.02.2022 Copy enclosed. Application for renewal of NOC application have been submitted.
vi.	Solid/hazardous waste generated in the mines needs to be addressed in accordance to use Solid Waste Management Rules, 2016.	Hazardous waste is disposed off as per Hazardous & other waste (Management & Transboundary movement) Rule 2016.
(b) Air quality monitoring and preservation		
i	Continuous ambient air quality monitoring station as prescribes in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants,	Continuous ambient air quality monitoring station has been installed, commissioned and connected with MPCB server located in Niljai Filter Plant, having Lat Long -19°59'34.3"N, 79°03'43.9"E in consultation with Maharashtra Pollution Control Board.

	namely PM10, PM2.5, SO2 and NOx. Location of the features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring station as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.	Monitoring of heavy metals are being done once in six months and the results are being online submitted via email id waniarea.environddept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur.
ii	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB	Ambient Air Quality Monitoring is done at core zone as per Coal Industry Standards notified vide GSR 742 (E) dated 25 th September, 2000 and as amended and buffer zone as per National Ambient Air Quality Standard and amendment 2000, on fortnightly basis. Monitoring of heavy metals are being done once in six months. Both the results are being online submitted via email id waniarea.environddept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur.
iii	Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of	Transportation of coal is done by Tarpaulin covered trucks. Details of tanker is given below: 1. 12 KL – 1 No. hired water tanker is deployed on coal transportation road on daily basis. 2. 28KL - 2 Nos. departmental water tanker is deployed at haul roads and in mining area. 3. 20KL – 3 Nos. water tanker is deployed at contractual patch of M/s. Gaurav contracts 4. 20KL – 7 Nos. water tanker is deployed at contractual patch of M/s. H D Gaurav

	<p>PM10/PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emission from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Details of sprinklers are given below:</p> <ol style="list-style-type: none"> 1. Sprinklers from Niljai (N) CHP to weighbridge – 15 Nos. 2. Sprinkler in and around Niljai (S) CHP – 02 Nos. 3. Sprinkler near checkpost – 03 Nos. 4. CHP feeding pt. – 35 Nos. nozzles 5. Inside CHP- 60 Nos. misting nozzles at each CHP <p>Ambient air quality is monitored on fortnightly basis and confirmed with the standards provided by National Ambient Air Quality Standard and amendment 2000. Reports are submitted to Regional Office MoEF&CC along with six monthly compliance report.</p>
iv.	<p>The transportation of coal shall be carried out as per the provision and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>Transportation of coal is being carried out as per approved Mining Plan.</p> <p>The existing coal transportation road does not pass through any village. Moreover, continuous dust suppression is being done in this coal transportation road by sprinkling water from 12 KL mobile water tanker.</p>
v.	<p>Vehicular emission shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centers.</p>	<p>Vehicular emission is kept under control by routine maintenance of vehicles used in operation. Tippers carrying coal are optimally loaded and covered by tarpaulins. The company vehicles namely jeeps, School buses, Ambulances etc. are having valid PUC certificate from RTO authorized agencies.</p>
vi.	<p>Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should</p>	<p>Mining is done by Shovel dumper method. Wet drilling/ Dust extractor equipped drills are used for drilling hole for charging of explosive. Controlled blasting is practiced to ensure minimal dust and sound generation. Coal is then transferred to Coal Handling Plant (CHP) where coal crushing takes place. To control fugitive dust emission, CHP is enclosed with Galvanised Iron sheets from three sides and at the coal feeding point, rubber sheets have been placed.</p> <p>Details of sprinklers are given below:</p> <ol style="list-style-type: none"> 1. Sprinklers from Niljai (N) CHP to weighbridge – 15 Nos.

	be made to avoid air borne dust. Drill shall be wet operated or fitted with dust extractors.	2. Sprinkler in and around Niljai (S) CHP – 02 Nos. 3. Sprinkler near checkpost – 03 Nos. 4. CHP feeding pt. – 35 Nos. nozzles 5. Inside CHP- 60 Nos. misting nozzles at each CHP
vii.	Coal handling plant shall be operated with effective control measure w.r.t various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigation such parameters.	All necessary measures are taken to control dust emission at Coal Handling Plant. CHP is enclosed with Galvanised Iron sheets from three sides and at the coal feeding point, rubber sheets have been placed. Details of sprinklers are given below: 1. Sprinklers from Niljai (N) CHP to weighbridge – 15 Nos. 2. Sprinkler in and around Niljai (S) CHP – 02 Nos. 3. Sprinkler near checkpost – 03 Nos. 4. CHP feeding pt. – 35 Nos. nozzles 5. Inside CHP- 60 Nos. misting nozzles at each CHP
viii.	Major approach roads shall be black topped and property maintained.	Major roads are black topped and concretized. The length of coal transportation road is approx. 9.73 km, out of 9.73 km, 7.98 km of road is BT and remaining 1.75 km of road is concretized.
(c) Water quality monitoring and preservation		
i.	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended from time to time by the Central Pollution Control Board.	Effluent discharges i.e. mine water discharge, workshop effluent is being monitored fortnightly in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000 and as amended.
ii.	The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No. J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	Monitoring data is being regularly uploaded at WCL official website www.westerncoal.in and also displayed at the project site i.e Entrance of Sub Area Manager's Office.
iii.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of	Regular monitoring of ground water level from existing wells at 14 locations of Buffer zone is being done by M/s. Anancon Laboratories Pvt. Ltd. Nagpur for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons. Quality of groundwater as per IS: 10500: 2012.

	existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitoring once a year, and the data thus collected shall be sent regularly to MOEFCC/Ro.	The monitoring report is regularly sent to Regional Officer, CGWB Nagpur with a copy to MoEF&CC& CPCB. Copy of ground water monitoring report for Nov 2021 & Oct 2022 has been forwarded via. Email to rdcgwb@nic.in on dtd. 18/11/2022 from waniarea.environdept@gmail.com.
iv.	Monitoring water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.	Monitoring of water quality at upstream and downstream of Wardha river is being done once in six month and the results are submitted to MoEF&CC. Copy enclosed.
v.	Ground water, excluding mine water, shall not be used for mining operation. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.	Ground water excluding mine water is not being used for any mine operation. For groundwater recharge rooftop rainwater harvesting structure has been constructed at Sub Area Office having roof top area – 170 sqm., recharge pit dimension – 2m x 2m and borehole depth – 50 m And Manager office with roof top area – 120sqm. recharge pit dimension – 2m x 2m and borehole depth – 50 m
vi.	Catch and/or garland drain and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of	Catch Drains of size 4 x 2m and 3 x 2m have been provided along periphery of OB dump to arrest silt and sediment flow from respective dump site. The drains are regularly desilted on yearly basis. Garland drains of length 9.5 Km with bottom width of 1.5 m and top width of 3.00m and depth of 1.5 m is provided and regularly de-silted. Overburden dump is properly compacted by grader and slope is maintained to avoid any sort of dump failure during monsoon.

	<p>water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt developments and other industrial use. Dimension of the retaining wall construction if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.</p>	
vii.	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards)</p>	<p>For groundwater recharge rooftop rainwater harvesting structure has been constructed at Sub Area Office having roof top area – 170 sqm., recharge pit dimension – 2m x 2m and borehole depth – 50 m And Manager office with roof top area – 120sqm. recharge pit dimension – 2m x 2m and borehole depth – 50 m The water requirement of nearby villages are met as per the demand raised by local people. De-silting of village ponds in the adjacent villages are being done for helping artificial ground water recharging. De-silting of pond of Taroda village was done having present capacity of water approximately 35000 KL similar works have been done at Besa and Shripur village.</p>
viii .	<p>Industrial waste water generated from CHP, workshop and other waste</p>	<p>There are two types of industrial wastewater arising out in mine premises i.e. mine water and workshop effluent.</p>

	<p>water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time. Adequate ETP/ STP needs to be provided.</p>	<p>Mine water after primary sedimentation in the mine sump itself is pumped out & collected into surface sedimentation pond for further settlement. The dimension of RCC sedimentation tank is 30 m x 10.5 m x 2.5 m.</p> <p>Workshop effluent arising after washing of HEMM is being treated in Effluent treatment plant of capacity 150 KLD comprising of oil and grease trap.</p> <p>The quality of treated water from sedimentation tank and ETP is monitored every fortnight and parameters are well within the permissible limit</p>
ix.	<p>The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drain shall be regularly desilted particularly after monsoon and maintained properly.</p>	<p>The water pumped from mine viz. mine water is utilized for dust suppression and fire fighting work in the mine. The drains are regularly desilted and maintained throughout the year.</p>
x.	<p>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of as per the permission of DGMS or any other</p>	<p>As per the approved Mining Plan and EIA/EMP diversion of nallah or rivers in the mining area is not involved.</p> <p>Due to mining operations, there will be minimal change in drainage and surface runoff in the core zone (Project area).</p> <p>The mining activities like excavation works improves the infiltration capacity of the soil and blasting improves the water recharge capacity of ground water table by causing fractures. As such the surface run-off contribution to the natural drains from the mining area has been reduced / minimized thereby some minor change is expected in hydrologic regime of the river system.</p> <p>Regarding embankment it is submitted that, as per the DGMS for protection of mine from surface inundation due to river floods, an embankment of 5.61 km length, 30m width and RL 195 (HFL-186.90 m) is proposed to be constructed along the Wardha River flowing through north to south on the eastern side of the mine approx.3 km away from the quarry area. The embankment will be stabilized with plantation on the top and stone pitching on the slope facing river side.</p>

	authority as prescribed by the law.	
xi.	The project proponent shall be take all precautionary measure to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan water resource department in the state government.	Noted for compliance The Draft report of riverine ecosystem is under preparation and will be submitted to water resource department of state government for their comments and suggestion before finalization and implementation.
xii.	The project propend shall be not alter major water channels around the site. Appropriate embankment shall be provided along the side of the river/nallah flowing near or adjacent to the mine. The embankment constructed along the river/nallah boundary shall be of suitable dimension and critical patches shall be strengthened by stone pitching on the river front side, stabilized with plantation so as to withstand the peak water pressure preventing any chance of mine inundation.	No major water channel have been altered. Embankment is constructed all along the mine boundary. Existing embankment along arterial road is 6.38 km with top width of 30.00 m and top RL of 192.80 m along river. And the new proposed embankment is having a length of 5.61km having a top width of 30m and top RL of 195 m along river by the end of 5th year. Embankment and OB dump are stabilized with 379555 Nos. of plants in total area 151.8 Ha.
xiii	Garland drain (of suitable size, gradient and length) around the critical areas i.e. mine shaft and low lying areas, shall be designed keeping at least 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine sites. The sump capacity shall also provided adequate	Garland drain of adequate size, gradient and length is provided at critical areas. Total dimension of drain is 9.5 Km with bottom width of 1.5 m and top width of 3.00m and depth of 1.5 m.

	retention period to allow proper settling of site material of the surface runoff.																																																																																	
(d) Noise and Vibration monitoring and prevention																																																																																		
i.	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for user to be conducted. Progress in usage of such accessories to be monitored.	<p>Noise levels are being monitored and all the necessary measure are made to reduce noise pollution in the mines. The required personnels are being given with Personal protective equipments (PPE) like ear plugs/muffs. The issuance of safety equipment like dust mask, safety jacket, helmet, mining shoe, gumboot etc is given below:</p> <table><tr><th>Year</th><th>Safety Helmet</th><th>Ear Plug</th><th>Ear Muff</th><th>Dust Mask</th></tr><tr><td>2015</td><td>260</td><td>410</td><td>40</td><td>1400</td></tr><tr><td>2016</td><td>100</td><td>555</td><td>200</td><td>2800</td></tr><tr><td>2017</td><td>110</td><td>70</td><td>-</td><td>2000</td></tr><tr><td>2018</td><td>235</td><td>80</td><td>-</td><td>1200</td></tr><tr><td>2019</td><td>300</td><td>450</td><td>-</td><td>185</td></tr><tr><td>2020</td><td>301</td><td>-</td><td>-</td><td>5800</td></tr><tr><td>2021</td><td>125</td><td>20</td><td>-</td><td>-</td></tr></table> <table><tr><th>Year</th><th>Safety Belt</th><th>Mining Shoes</th><th>Reflector jacket</th><th>Gumboot</th></tr><tr><td>2015</td><td>15</td><td>840</td><td>800</td><td>475</td></tr><tr><td>2016</td><td>7</td><td>-</td><td>700</td><td>-</td></tr><tr><td>2017</td><td>10</td><td>835</td><td>700</td><td>273</td></tr><tr><td>2018</td><td>02</td><td>883</td><td>1150</td><td>120</td></tr><tr><td>2019</td><td>10</td><td>704</td><td>950</td><td>85</td></tr><tr><td>2020</td><td>-</td><td>1299</td><td>-</td><td>465</td></tr><tr><td>2021</td><td>-</td><td>456</td><td>-</td><td>248</td></tr></table>	Year	Safety Helmet	Ear Plug	Ear Muff	Dust Mask	2015	260	410	40	1400	2016	100	555	200	2800	2017	110	70	-	2000	2018	235	80	-	1200	2019	300	450	-	185	2020	301	-	-	5800	2021	125	20	-	-	Year	Safety Belt	Mining Shoes	Reflector jacket	Gumboot	2015	15	840	800	475	2016	7	-	700	-	2017	10	835	700	273	2018	02	883	1150	120	2019	10	704	950	85	2020	-	1299	-	465	2021	-	456	-	248
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ii.	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc, as per the guidelines prescribed by the DGMS.	Controlled blasting is practiced in the mine as per permission of Department of mines (DGMS) and all the precautions are taken to control the ground vibration to arrest the fly rocks and boulders and regular monitoring is done with the help of vibrometer.																																																																																
iii.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at	The noise level survey is being carried out by CMPDIL on fortnightly basis and reports are being sent in six monthly to Regional officer, MPCB and MOEFCC.																																																																																

	vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.	Details of noise level monitored at critical location of mine to assess noise exposure of the workmen at vulnerable points in the mine premises is given below:
	(e) Mining Plan	
i.	Mining shall be carried out under strict adherence to provisions of the mines Act 1952 and subordinate legislation made there-under as applicable.	Mining operation are being carried out and continue to be carried out as per provisions of Mines Act 1952 and no deviation is being made during operations.
ii.	Mining shall be carried out as per the approved mining plan(including mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Mining operations is being carried as per approved mining plan, by abiding all the mining rules and DGMS guidelines issued time to time.
iii.	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	No mining activity is being carried out at Forest Land as there is no forest land involved.
iv.	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Efforts are being made for judicious use of energy and fuel consumption. All the electrical equipment installed like tubelight and fans are power saving in nature. LED fittings are provided in the mine to conserve energy.
v.	No change in mining method i.e. UG to OC, calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environmental, Forests and Climate Change (MoEFCC).	No change in calendar program will be done without obtaining prior approval of the Ministry of Environmental, Forests and Climate Change (MoEF&CC) and other statutory bodies.

vi.	Underground work place environmental conditions shall be rendered ergonomic and air breathable with adequate illumination in conformance with DGMS standards.	The subject EC is granted for opencast mine. Underground workspace is related to underground mine thus condition not applicable.
vii.	No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provision of Indian Forest Act, 1927	No forest land involved thus not applicable.
(f) Land Reclamation		
i.	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Restoration/Reclamation Monitoring of all mine of WCL having more 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 Niljai OC mine for year 2021 is enclosed.
ii.	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be	The final mine void depth, backfilling and afforestation will be done as per approved Mine closure plan. Mine Closure Plan is a part of Project Report/ Mining plan and a mine closure plan was approved by the WCL Board along with opening of a corpus fund / account having account no. 08973161002775 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 Rs 90,11,75,692.30 (Including the principal along with the interest).

	rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal dated 27 th August, 2009 and subsequent amendments	
iii.	The entire excavated area, backfilled, external OB dumping (including op soli) and afforestation plan shall be in conformity with the “during mining” / “post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-s-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	The entire excavation, backfilling, external OB dumping (including top soil) and afforestation is done as per the Mining Plan and EIA/EMP submitted to this Ministry. All these details are enclosed and submitted as a part of six monthly compliance report to the MOEF&CC/RO.
iv.	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provision contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issue vide SO 2804 (E) dated 3 rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of	Fly ash can be used only in abandoned mine, subject mine is active in nature. Thus not applicable.

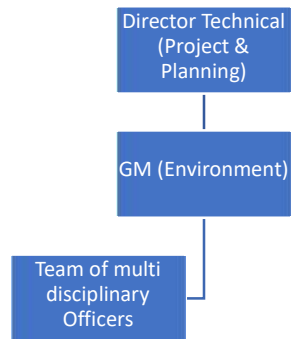
	MoEF&CC, CPCB and SPCB.																																																																																																																								
v.	<p>Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface runoff. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.</p>	<p>The top soil is being dumped separately at earmarked site and this soil will be used while blanketing and for creation of vegetation site after backfilling is done, in accordance with mine closure plan.</p> <p>Active OB dumps will be stabilized with native grass species to avoid erosion and surface runoff. Plantation will be carried out in OB dump when dumps will become inactive.</p> <p>The excavated area will be planted with native species inline with Mine closure Plan once the physical reclamation takes place.</p> <p>The quantity of top soil dump generated and OB dump generated from beginning of the mine is enclosed.</p> <p>The details of OB dump is given follows (as on 31/03/2022)</p> <table><tr><th>Sr. No</th><th>Dump Name</th><th>Type of soil (Black cotton/Hard)</th><th>External / Internal</th><th>Area (Ha)</th><th>Height of Dump (in m)</th><th>Volume (in Mm3)</th></tr><tr><td>1</td><td>Dump No. 7</td><td>BC</td><td>External</td><td>6.185</td><td>28</td><td>0.72</td></tr><tr><td>2</td><td>DIP 1</td><td>BC</td><td>External</td><td>7.988</td><td>17</td><td>0.758</td></tr><tr><td>3</td><td>Dump No. 8</td><td>BC</td><td>External</td><td>10.428</td><td>16</td><td>1.41</td></tr><tr><td>4</td><td>DIP 2</td><td>BC</td><td>External</td><td>10.52</td><td>29</td><td>0.93</td></tr><tr><td>5</td><td>Dump No. A</td><td>BC</td><td>External</td><td>5.46</td><td>15</td><td>0.991</td></tr><tr><td>6</td><td>Dump No. H</td><td>BC</td><td>External</td><td>13.649</td><td>25</td><td>2.422</td></tr><tr><td>7</td><td>Dump No. B (EMB)</td><td>BC</td><td>External</td><td>23.28</td><td>30</td><td>2.712</td></tr><tr><td>8</td><td>Dump C</td><td>BC</td><td>External</td><td>36.854</td><td>20</td><td>3.45</td></tr><tr><td>9</td><td>Dump K</td><td>BC</td><td>External</td><td>8.832</td><td>10</td><td>0.62</td></tr><tr><td>10</td><td>Dump No. 2 (NLS)</td><td>Hard</td><td>External</td><td>15.904</td><td>31</td><td>2.67</td></tr><tr><td>11</td><td>Dump No. 3</td><td>Hard</td><td>External</td><td>63.239</td><td>73</td><td>19.39</td></tr><tr><td>12</td><td>Dump No. 2 (North)</td><td>Hard</td><td>External</td><td>22.86</td><td>51</td><td>7.24</td></tr><tr><td>13</td><td>Dump No. 4</td><td>Mix (BC + Hard)</td><td>External</td><td>90.973</td><td>60</td><td>33.84</td></tr><tr><td>14</td><td>Dump No. D</td><td>Mix (BC + Hard)</td><td>External</td><td>315.206</td><td>70</td><td>94.44</td></tr><tr><td>15</td><td>Dump No E</td><td>Hard</td><td>External</td><td>25.63</td><td>20</td><td>2.42</td></tr><tr><td>16</td><td>Dump No. 3 (North)</td><td>Hard</td><td>Internal</td><td>104.976</td><td>48</td><td>34.54</td></tr></table>	Sr. No	Dump Name	Type of soil (Black cotton/Hard)	External / Internal	Area (Ha)	Height of Dump (in m)	Volume (in Mm3)	1	Dump No. 7	BC	External	6.185	28	0.72	2	DIP 1	BC	External	7.988	17	0.758	3	Dump No. 8	BC	External	10.428	16	1.41	4	DIP 2	BC	External	10.52	29	0.93	5	Dump No. A	BC	External	5.46	15	0.991	6	Dump No. H	BC	External	13.649	25	2.422	7	Dump No. B (EMB)	BC	External	23.28	30	2.712	8	Dump C	BC	External	36.854	20	3.45	9	Dump K	BC	External	8.832	10	0.62	10	Dump No. 2 (NLS)	Hard	External	15.904	31	2.67	11	Dump No. 3	Hard	External	63.239	73	19.39	12	Dump No. 2 (North)	Hard	External	22.86	51	7.24	13	Dump No. 4	Mix (BC + Hard)	External	90.973	60	33.84	14	Dump No. D	Mix (BC + Hard)	External	315.206	70	94.44	15	Dump No E	Hard	External	25.63	20	2.42	16	Dump No. 3 (North)	Hard	Internal	104.976	48	34.54
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3	Dump No. 8	BC	External	10.428	16	1.41																																																																																																																			
4	DIP 2	BC	External	10.52	29	0.93																																																																																																																			
5	Dump No. A	BC	External	5.46	15	0.991																																																																																																																			
6	Dump No. H	BC	External	13.649	25	2.422																																																																																																																			
7	Dump No. B (EMB)	BC	External	23.28	30	2.712																																																																																																																			
8	Dump C	BC	External	36.854	20	3.45																																																																																																																			
9	Dump K	BC	External	8.832	10	0.62																																																																																																																			
10	Dump No. 2 (NLS)	Hard	External	15.904	31	2.67																																																																																																																			
11	Dump No. 3	Hard	External	63.239	73	19.39																																																																																																																			
12	Dump No. 2 (North)	Hard	External	22.86	51	7.24																																																																																																																			
13	Dump No. 4	Mix (BC + Hard)	External	90.973	60	33.84																																																																																																																			
14	Dump No. D	Mix (BC + Hard)	External	315.206	70	94.44																																																																																																																			
15	Dump No E	Hard	External	25.63	20	2.42																																																																																																																			
16	Dump No. 3 (North)	Hard	Internal	104.976	48	34.54																																																																																																																			

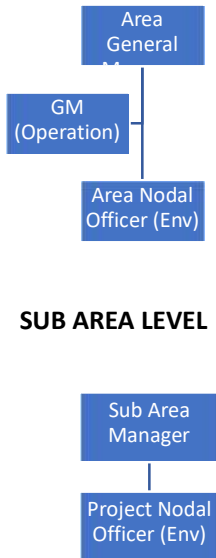
		<table><tr><td>17</td><td>Dump No. 2 (North)</td><td>Hard</td><td>Internal</td><td>47.197</td><td>32</td><td>21.68</td></tr><tr><td>18</td><td>Dump No. 4</td><td>Mix (BC + Hard)</td><td>Internal</td><td>110.667</td><td>8</td><td>34.97</td></tr><tr><td>19</td><td>Dump No. I</td><td>Hard</td><td>Internal</td><td>20.63</td><td>10</td><td>5.763</td></tr></table> <p>Six monthly EC compliance report is submitted to RO, Nagpur MoEF&CC and RO MPCB Chandrapur</p>	17	Dump No. 2 (North)	Hard	Internal	47.197	32	21.68	18	Dump No. 4	Mix (BC + Hard)	Internal	110.667	8	34.97	19	Dump No. I	Hard	Internal	20.63	10	5.763
17	Dump No. 2 (North)	Hard	Internal	47.197	32	21.68																	
18	Dump No. 4	Mix (BC + Hard)	Internal	110.667	8	34.97																	
19	Dump No. I	Hard	Internal	20.63	10	5.763																	
vi.	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate area for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	No prominent grassland was found in core zone as per baseline data generated for Flora and Fauna in Environment Impact Assessment / Environment Management Plan. So, there is no necessity of making alternate arrangement for livestock grazing.																					
vii.	Post –mining land be rendered usable for agricultural purposes and shall be handed over to the respective State Government, as specified in the Guideline for August, 2009 and subsequent amendments.	Noted. Post mining the land will be reclaimed as per approved mine closure plan.																					
viii.	Regular monitoring of subsidence movement on the surface over and around the working areas and its impact on natural drainage pattern, water bodies vegetation, structure, roads and surroundings shall be continued till movement ceases completely. In case of observation of any high rate of subsidence beyond the limit prescribed, appropriate effective mitigation measure shall be taken to avoid loss of	The subject EC is granted for opencast mine. Subsidence is related to underground mine thus condition not applicable.																					

	life and materials, Cracks should be effectively pluuged in with ballast and clay soil/suitable material.	
ix.	A separate team for subsidence monitoring and surface mitigation measure shall be constitute and continuous monitoring & implementation of mitigation measure be carried out.	The subject EC is granted for opencast mine. Subsidence is related to underground mine thus condition not applicable.
x.	Through inspection of the mine lease area for any cracks developed at the surface due to mining activities below ground shall be carried out to prevent inrush of water in the mine.	The subject EC is granted for opencast mine. Subsidence is related to underground mine thus condition not applicable.
xi.	Native tree species shall be selected and planted over areas affected by subsidence.	The subject EC is granted for opencast mine. Subsidence is related to underground mine thus condition not applicable.
	(g) Green Belt	
i	The project proponent shall take all precautionary measure during mining operation for conversation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	There is no endangered flora/fauna as per baseline data generated for Flora and Fauna in Environment Impact Assessment / Environment Management Plan. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna. The study details is enclosed.
ii.	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of	Till March 2022, total plantation of 7,04,205.00 Nos. of plantation is done in 281.70 Ha of land comprising of mixed native species i.e. medicinal, timber, fruit bearing etc. on OB dumps, plain land, rationalization area etc. Coal transportation road is part of old embankment where already plantation exists. Plantation of 3,79,555 Nos. in 151.80 Ha of OB Dump and embankment has been done.

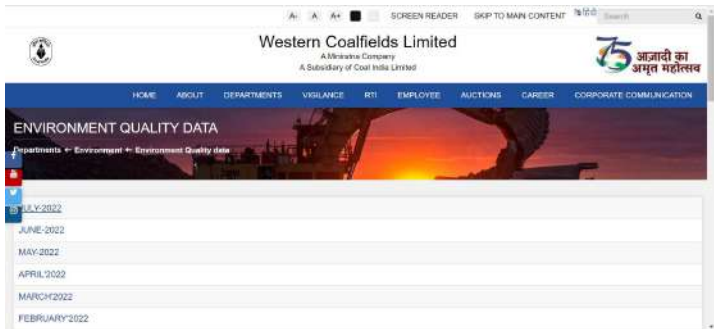
	native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.	<table><tr><th>Sr. No.</th><th>Location</th><th>Plants (in Nos.)</th><th>Area (in Ha)</th></tr><tr><td>1</td><td>OB Dump and embankment</td><td>379555</td><td>151.8</td></tr><tr><td>2</td><td>Plain area (Rationalization area, Blasting zone)</td><td>317650</td><td>127.1</td></tr><tr><td>3</td><td>Avenue</td><td>7000</td><td>2.8</td></tr><tr><td></td><td>Total</td><td>704205</td><td>281.7</td></tr></table> <p>In FY 2022-23, plantation of 51,000 Nos. in 20.40 Ha of land is targeted. Till Sept 2022, plantation of 35000 Nos. of saplings has been completed in plain land between mine and village.</p>	Sr. No.	Location	Plants (in Nos.)	Area (in Ha)	1	OB Dump and embankment	379555	151.8	2	Plain area (Rationalization area, Blasting zone)	317650	127.1	3	Avenue	7000	2.8		Total	704205	281.7
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	Total	704205	281.7																			
(h) Public hearing and Human health issues																						
ii.	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personal engaged in the project and maintain record accordingly as per the provision of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20 % of the personnel identified from workshop engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	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 medical check-up is being done, once in a year is conducted. Contractual workers IME is also being done before engaging into the job.																				
iii.	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	<p>All the personnel including outsourcing employees are being provided with protective respiratory devices and adequate training and information on safety and health is given at VTC.</p> <table><tr><th>Year</th><th>Departmental training</th><th>Contractual training</th></tr><tr><td>2017</td><td>4</td><td>372</td></tr><tr><td>2018</td><td>4</td><td>206</td></tr><tr><td>2019</td><td>9</td><td>606</td></tr><tr><td>2020</td><td>85</td><td>503</td></tr><tr><td>2021</td><td>48</td><td>808</td></tr></table>	Year	Departmental training	Contractual training	2017	4	372	2018	4	206	2019	9	606	2020	85	503	2021	48	808		
Year	Departmental training	Contractual training																				
2017	4	372																				
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2021	48	808																				

		2022 (upto Sept)	5	174
		<p>The issuance of safety equipment like dust mask, safety jacket, helmet, mining shoe and gumboot is also provided. Details are provided in compliance d (i)</p>		
iv.	<p>Implementation of the action plan on the issue raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measure as per as the action plan submitted with budgetary provision during the public hearing. :Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.</p>	<p>Noted. Last public hearing was conducted on 29/11/2013. All the issues raised during public hearing is being addressed. Land outsees has being compensated and employment has been given to all the eligible persons as per R&R policy. All the guidelines will be adhered from time to time framed by Government body in future.</p>		
v.	<p>The project proponent shall follow the mitigation measure provided in this Ministry's OM No. Z-110 13/5712014-IA.II (M0 dated 29th October, 2014, titled "Impact of mining activities on habitations-issued related to the mining project wherein habitation and village are the part of mine lease areas or habitations and villages are surrounded by the mine lease area</p>	<p>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.Z-11013/5712014- IA.II (M) dated 29th October, 2014.</p>		
<p>(i) Corporate Environment Responsibility</p>				
i.	<p>The project proponent shall comply with the provision contained in this Ministry's On vide F.No.22-65/2017-IA.3 dated 1st May 2018, as applicable, regarding</p>	<p>As per the O.M dated 1st May 2018, the provisions of CER is not applicable as mention in clause no. (ix) of the O.M i.e there is no additional capital investment for proposed expansion which has been duly approved by WCL Board vide its resolution no. WCL / BD/ SECTT./ BM-315/2019/953 dated 12.10.2019</p>		

	Corporate Environment Responsibility.	
ii.	<p>The company shall have a well laid down environment policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and of to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders.</p>	<p>Coal India Limited (CIL) has formulated a comprehensive Environment Policy 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.</p> <p>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.</p> <p>For monitoring of EC/FC norms & conditions, an online MDMS portal (Mine Data Management 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.</p> <p>This management system has the access of CIL & MoC.</p>
iii.	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>	<p>To deal with environmental issues and for ensuring compliance with environmental clearance conditions, environment cell is established at project level, area level and WCL HQ level.</p> <div style="text-align: center;"> <p>WCL HQ LEVEL</p>  <pre> graph TD A[Director Technical (Project & Planning)] --> B[GM (Environment)] B --> C[Team of multi disciplinary Officers] </pre> </div> <p>AREA LEVEL</p>

		 <pre> graph TD AGM[Area General Manager] --- GM[GM (Operation)] AGM --- ANO[Area Nodal Officer (Env)] AGM --- SAM[Sub Area Manager] SAM --- PNO[Project Nodal Officer (Env)] </pre> <p style="text-align: center;">SUB AREA LEVEL</p>																											
iv.	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measure shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional along with the Six Monthly Compliance Report.</p>	<p>Action plan for implementation of environmental conditions has been prepared and approved by competent authority. The separate fund is being kept for Environment protection works and these funds are not diverted by any means. The environment expenditure made is accounted and reported in six monthly compliance report is sent to Regional officer, MOEF.</p> <p>Capital expenditure (From 2019-20 upto Sept 22) – 1.17 Crores comprising of Installation and commissioning of CAAQMS, Installation of 2 Nos. piezometer with sensors and Procurement of 1 No. Truck mounted mist spray system)</p> <p>Revenue expenditure comprises of expenditure made towards plantation, consent fees, dust suppression, environment quality monitoring fees, other statutory fees and misc. Works. Details of revenue expenditure made in last few years is listed below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th><th>Year</th><th>Amount (in lakhs)</th></tr> </thead> <tbody> <tr><td>1</td><td>2014 – 15</td><td>112.85</td></tr> <tr><td>2</td><td>2015 – 16</td><td>142.73</td></tr> <tr><td>3</td><td>2016 – 17</td><td>318.07</td></tr> <tr><td>4</td><td>2017 – 18</td><td>258.83</td></tr> <tr><td>5</td><td>2018 - 19</td><td>103.71</td></tr> <tr><td>6</td><td>2019 - 20</td><td>392.30</td></tr> <tr><td>7</td><td>2020 - 21</td><td>151.85</td></tr> <tr><td>8</td><td>2021- 22</td><td>274.06</td></tr> </tbody> </table> <p>The details of expenditure under capital & revenue budgets are being submitted to RO, MoEF& CC along with half yearly compliance reports.</p>	Sr. No.	Year	Amount (in lakhs)	1	2014 – 15	112.85	2	2015 – 16	142.73	3	2016 – 17	318.07	4	2017 – 18	258.83	5	2018 - 19	103.71	6	2019 - 20	392.30	7	2020 - 21	151.85	8	2021- 22	274.06
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v.	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	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. The internal monitoring audit was conducted for 1st quarter of FY 2022-23. Third party environment audit will be conducted in FY 2022-23.
(j) Miscellaneous		
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspaper of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Environment Clearance copy was advertised in Newspaper 1. Sakal dtd. 24.03.2020 (English) 2. Lokmat dtd. 24.03.2020 (Marathi) EC copy was uploaded in MPCB online portal and even uploaded at WCL official website www.westerncoal.in .
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	The copy of Environmental clearance has been submitted to the Head of local bodies, Panchayat and Municipal Bodies. Copy of the letter enclosed
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their	Six monthly compliance report along with monitoring report is regularly submitted to Regional Office of MoEF&CC via email id waniarea.environdept.com and even uploaded at WCL official website www.westerncoal.in

	website and update the same on half-yearly basis.	
iv.	The project proponent shall monitor the criteria pollutants level namely: PM10, SO2, NOx (ambient levels) or critical sectoral – parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the websites of the company	<p>Four monitoring of criteria pollutants level four monitoring stations has been established in the project. Two core zones stations i.e. Civil Office and Workshop ETP. Two buffer zone stations have been established at villages namely Niljai colony and Taroda village. SPM, PM10, PM 2.5, SOx, NOx is being monitored regularly at these stations on fortnightly basis.</p> <p>Results are submitted online via email id waniarea.environddept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur. And reports are also sent to Regional Officer, MPCB and MOEF along with six monthly compliance report.</p> <p>Monitoring data is being regularly uploaded at WCL official website www.westerncoal.in and also displayed at the project site i.e Entrance of Sub Area Manager's Office.</p> 
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environmental, Forest and Climate Change at environment clearance portal.	Six monthly compliance report is regularly submitted to Regional Office of MoEF&CC via email id waniarea.environddept.com and even uploaded at WCL official website www.westerncoal.in .
vi.	The project proponents shall follow the mitigation measure provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 th October, 2014, titled "Impact of mining activities on habitation-issues related to the mining project	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.Z-11013/5712014- IA.II (M) dated 29th October, 2014.

	wherein habitations and village are the part of mine lease areas or habitations and village are surrounded by the mine lease area.	
vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environment Statement Form- V is submitted regularly at online portal of Maharashtra Pollution Control Board and also uploaded in Western Coalfields Limited official website. The Environment Statement for FY 2021-22 was submitted on 20-08-2022 (Copy enclosed)
viii.	The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.	<p>Informed with submission of six monthly EC compliance report.</p> <p>The project proponent has obtained statutory consent from State Pollution Control board before production of enhanced quantity.</p> <p>The Consent to Establish and Operate for 4.50 MTPA capacity by Maharashtra Pollution Control Board vide ref No. No. /Format1.0/CC/UAN No. 0000090513/CO – 2005000269 dtd. 08.05.2020 valid till 31.03.2021 (got approved through circulation agenda and was communicated through email ast@mpcb.gov.in dtd. 23.03.2020 to email id waniarea.environdept@gmail.com but consent copy issued late due to COVID 19). Renewal of consent approved vide Format1.0/CAC/UAN No. MPCB- CONSENT 0000107964/CR/2204000651 dtd. 12/04/2022 valid till 31/03/2023.</p>
ix.	The project authorities must strictly adhere to the stipulation made by the State Pollution Control Board and the State Government.	All conditions stipulated by Maharashtra Pollution Control Board is being followed.
x.	The project proponents shall abide by all the commitments and recommendation made in the EIA/EMP report, commitment made during Public Hearing and also that during their	All the commitments and recommendations made in EIA/EMP report, presented in the presentation to EAC and on all the issues raised during hearing is being followed as a part of regular activity.

	presentation to the Expert Appraisal Committee.	
xi.	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environmental, Forests and Climate Change.	Noted. No further expansion or modification in the mine will be carried out without prior approval of the Ministry of Environmental, Forests and Climate Change.
xii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment (Protection) Act, 1986.	Noted. No concealing of factual data or submission of false/fabricated data is being done.
xiii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfaction.	Noted.
xiv.	The Ministry reserves the right to stipulate additional condition if found necessary. The Company in a time bound manner shall implement these condition.	Noted. In a time bound manner additional conditions, if provided by ministry, will be implemented.
xv.	The Regional Office of this Ministry shall monitor compliance of the stipulate conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnished the requisite data/ information/ monitoring reports.	Noted. Full cooperation will be extended to all the statutory Govt Bodies for monitoring and the required information/ data will be submitted.
xvi.	The above condition shall be enforced, inter-alia under the provisions of	Noted

	the Water (prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of law relating to the subject matter.	
5.	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issue raised during hearing shall also be implemented in letter and spirit.	The project proponent abides by all the commitments and recommendations made in EIA/EMP report, presented in the presentation to EAC and on all the issues raised during hearing and implementing it in letter and spirit.
6.	The proponent shall obtain all necessary clearance / approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other complete authority may stipulate any further condition for environmental protection. The Ministry or any other	<p>The project has obtained statutory consent from State Pollution Control board before production of enhanced quantity.</p> <p>The Consent to Establish and Operate for 4.50 MTPA capacity by Maharashtra Pollution Control Board vide ref No. No. /Format1.0/CC/UAN No. 0000090513/CO – 2005000269 dtd. 08.05.2020 valid till 31.03.2021 (got approved through circulation agenda and was communicated through email ast@mpcb.gov.in dtd. 23.03.2020 to email id waniarea.environdept@gmail.com but consent copy issued late due to COVID 19). Renewal of consent approved vide Format1.0/CAC/UAN No. MPCB- CONSENT 0000107964/CR/2204000651 dtd. 12/04/2022 valid till 31/03/2023.</p> <p>Approval for Groundwater from CGWA is obtained vide letter no. CGWA /NOC /MIN /ORIG /2020 /7434 dtd. 25.02.2020</p>

	competent authority may stipulate any further condition for environmental protection.	valid till 24.02.2022. Further renewal application for 2 years have been submitted.
7	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
8	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No. 114/2014 in the matter of 'Common Cause Vs Union of India & others.	No illegal mining operation have been undertaken. Thus not liable for any compensation.
9	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponents through their respective Department of Mining & Geology, in strict compliance their Judgment of Hon'ble Supreme Court.	No illegal mining operation have been undertaken. Thus not liable for any compensation.
10	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble	Noted

	Supreme Court, as application, and other statutory requirements.	
11	This issue in supersession of the earlier EC granted vide letter dated 30 th March, 2011.	Noted


 29/11/2022
 Sub Area Manager
 Niljai Opencast Mine

**Addendum to the Six-monthly Environmental Compliance report of Niljai Expansion
(Deep) OC Mine from 3.50 MTPA to 4.5 MTPA in 1761.22 Ha area (Period 1 April 2022 to
30 September 2022)**

Ref No. J-11015/261/2011-IA. II(M) dtd. 20.03.2020

Sr. No.	Condition	Compliance status as on (30.09.2022)
	(h) Public hearing and Human health issues	
4.1 h(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to the ministry & it's RO on six monthly basis.	<p>Illumination is being monitored on regular basis as per guidelines of DGMS.</p> <p>At present adequate illumination is provided and additional lighting arrangement will be done as per requirement and working of mine. Illumination survey report enclosed.</p>


19/11/2022
Sub Area Manager,
Niljai Expansion (Deep) OC,
Niljai Sub Area

