

WESTERN COAL FIELD LIMITED

SIX MONTHLY

EC COMPLIANCE REPORT

FOR PERIOD OF

1st October 2022 to 31st March 2023



PENGANGA OPENCAST

PROJECT WCL

WANI AREA

EC COMPLIANCE

STATUS OF COMPLIANCE OF EC CONDITIONS OF PENGANGA PROJECT

MOEF Clearance Letter No.J-11015/46/2009-IA.II (M) 11th January 2019 and subsequent EC for extension issued vide letter No.J-11015/46/2009-IA.II (M) dated 26 December, 2019

Sr. No	CONDITION	STATUS OF COMPLIANCE (as on 31.03.2023)
	SPECIFIC CONDITIONS	
4		
i)	The project proponent shall collect and analyze one season data for environmental parameters and submit for consideration of the EAC before 31st December 2019.	One season data has been collected for the duration March, 2019 to June, 2019 covering pre - monsoon season for Environmental parameters and the same was submitted to MoEF&CC, based on which the further extension of EC has been accorded by MoEF&CC.
ii)	The project proponent shall obtain consent to establish from the state pollution control boards for the proposed peak capacity of 6.30 MTPA prior to commencement of the increased production.	The consent to establish & operate for the peak capacity of 6.30 MTPA has been obtained from the Maharashtra Pollution Control Board vide letter No. Red/LSI Consent no : Format 1.0/BO/CAC-cell/CAC-UAN No 63699 and 63749/ CAC- 1902001161 Date 25.02.2019 which is valid till 31.03.2022. Further renewal of consent has been obtained vide Format 1.0/CAC/UAN No. 0000130559/CR/2207001199 dtd. 24/07/2022 valid till 31/03/2023. CTO renewal for capacity 6.3 MTPA has been applied for validity till 31.03.2025 vide application no: MPCB-CONSENT-0000166191. The copy of consent is enclosed as Annexure-I
Iii)	Transportation of coal from face to coal heap shall be carried out by truck. Further, the coal transportation from coal heap to coal handling plant shall be carried out through covered trucks.	The coal transportation from coal face to coal stockyard is carried out by truck. Coal handling plant is not established in mine as coal is extracted through surface miner which provides coal of -100mm size. Mobile crusher is provided for the coal which cannot be extracted by the surface miner. As such, coal from pit head is transported by truck and before it leaves the mine premises, the truck is covered with tarpaulin.
Iv)	To control the production of dust at source, the crusher and in-pit belt conveyors	In order to control the production of dust at source, it may be mentioned here that, the coal extraction is carried out by Surface Miner, the size of coal is (-) 100 mm and as such further crushing is not required. There is no CHP constructed. Mobile crusher is provided for the coal which cannot be extracted

	shall be provided with mist type sprinklers.	by the surface miner and provided with water sprinkling arrangement Surface miner is fitted with mist sprinkling arrangement and it is fitted with sensors so that cutting of coal by surface miner is executed only when misting nozzles are turned on.																														
V	Mitigating measures shall be undertaken to control dust and other fugitive emission all along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emission, which would include mechanized sweeping, water sprinkling/ mist spraying on haul roads and loading sites, long range misting/ fogging arrangement and wind barrier wall and vertical greenary system, green belt, dust suppression arrangement at railway siding etc.	<p>Mitigating measures to control dust and other fugitive emission along the roads/ haul roads etc. following arrangements are already in place:-</p> <ol style="list-style-type: none"> 1. Along coal transportation road and at coal stock yard a total 30 nos high radial throw of 50m radius rainguns have been provided and are under operation. 2. The water tankers deployed at various location are given below: <ol style="list-style-type: none"> a. 2 Nos. 12KL water tanker (at coal transportation road upto Sakhara village) b. Departmental 2 Nos. of 28KL water tanker for dust suppression at haul roads c. Contractual (Avatar Singh) 3 Nos. of 18KL Water tanker for dust suppression at contractual patch <p>Regarding development of green belt, the status as on date is as follows:-</p> <table border="1"> <thead> <tr> <th>Year</th> <th>River/safety zone</th> <th>OB dump/ embankment</th> <th>Plain</th> <th>Avenue / CTR</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2018- 19</td> <td>17000</td> <td>8000</td> <td>0</td> <td>0</td> <td>25000</td> </tr> <tr> <td>2019- 20</td> <td>0</td> <td>13800</td> <td>0</td> <td>1200</td> <td>15000</td> </tr> <tr> <td>2020- 21</td> <td>13000</td> <td>3000</td> <td>4000</td> <td>0</td> <td>20000</td> </tr> <tr> <td>Total</td> <td>30000</td> <td>24800</td> <td>4000</td> <td>1200</td> <td>60000</td> </tr> </tbody> </table> <p>The coal from the pithead is transported to Ghugus Railway Siding over WBM road of 4.50 Km, Concrete Road of 2.478 Km and Bitumen Road 9.76 Km by tarpaulin covered trucks. In the Railway siding, there are 14 Nos. 50 m throw fixed sprinklers/ rainguns. In addition, there is one truck mounted mist spray system in operation at Railway Siding.</p> <p>In addition, One truck mounted mist spray system has been commissioned.</p>	Year	River/safety zone	OB dump/ embankment	Plain	Avenue / CTR	Total	2018- 19	17000	8000	0	0	25000	2019- 20	0	13800	0	1200	15000	2020- 21	13000	3000	4000	0	20000	Total	30000	24800	4000	1200	60000
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Vi	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 6.30 MTPA.	Approval for Groundwater from CGWA is being obtained vide letter no. CGWA/ NOC/ MIN/ ORIG/ 2019/5530 valid from 10/06/2019 to 09/06/2021. CGWA NOC renewal application submitted with requisite documents / fees on 08.06.2021. Competent Authority of CGWA has approved the NOC renewal vide dated 22.05.2022. The copy of groundwater NOC is enclosed as Annexure-II .																														

Vii	<p>Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.</p>	<p>Continuous monitoring of occupational safety and health hazard is conducted through 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>The medical examination is done separately for Departmental as well as Contractual workers at Rajiv Ratan Central Hospital, Ghugus. The hospital is well equipped with all medical instruments, paramedics and doctors needed for conducting PME and IME. Year-wise details of PME and IME for last four years are given below:-</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>PME</th> <th>Contractual IME</th> <th>Departmental IME</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2017</td> <td>75</td> <td>340</td> <td>32</td> </tr> <tr> <td>2</td> <td>2018</td> <td>117</td> <td>316</td> <td>68</td> </tr> <tr> <td>3</td> <td>2019</td> <td>156</td> <td>373</td> <td>487</td> </tr> <tr> <td>4</td> <td>2020</td> <td>173</td> <td>62</td> <td>207</td> </tr> <tr> <td>5</td> <td>2021</td> <td>298</td> <td>815</td> <td>20</td> </tr> <tr> <td>6</td> <td>2022</td> <td>192</td> <td>923</td> <td>5</td> </tr> <tr> <td>7</td> <td>2023 upto 31 March</td> <td>28</td> <td>171</td> <td>0</td> </tr> </tbody> </table> <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> <p>Regarding safety hazards, mine has well laid down SOPs for different activities (Total 31 Nos. activities with 117 Nos. of SOP) viz. blasting operation, shovel/ excavator operation, drill operation etc.</p> <p>Every year before, onset of monsoon, various activities are carried out viz. arrangements of Pumps and Pipes, Cleaning of Sumps, Garland Drains, Establishment of Control Room, providing essential safety jackets, Checking of all float alarms etc.</p> <p>Further, under Vocational Training, various awareness programmes of duration from 12 to 18 days are conducted round the year covering topics viz coal mining statute, organization structure, safety policy of company, handling of HEMM, safety on surface mine and precaution to be taken, danger from moving HEMM, safety from falling object, safe handling of explosive and surface, firefighting arrangement on the surface, use of PPE, first aid, housekeeping, quality awareness etc. for both departmental and contractual workers.</p> <p>Category wise refreshers training is conducted once in every five year.</p>	Sr. No.	Year	PME	Contractual IME	Departmental IME	1	2017	75	340	32	2	2018	117	316	68	3	2019	156	373	487	4	2020	173	62	207	5	2021	298	815	20	6	2022	192	923	5	7	2023 upto 31 March	28	171	0
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Vii i	<p>Persons of nearby villages shall be given training on livelihood and skill development to make them employable.</p>	<p>Skill development training, for increasing the employ-ability as well as for increasing opportunities for he income generation is provided to project affected people of nearby villages in Wani Area at Vocational Training Center, Ghugus on 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 given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Trade</th> <th>Duration</th> <th>Days</th> <th>Participant</th> </tr> </thead> <tbody> <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> <tr> <td>4</td> <td>Beauty Parlour</td> <td>15/10/2015 to 05/11/2015</td> <td>18</td> <td>35</td> </tr> <tr> <td>5</td> <td>Solar System</td> <td>23/01/2017 to 22/02/2017</td> <td>25</td> <td>30</td> </tr> <tr> <td>6</td> <td>Basic Tailoring Course</td> <td>14/09/2018 to 13/10/2018</td> <td>25</td> <td>60</td> </tr> <tr> <td>7</td> <td>Beauty</td> <td>09/02/2019</td> <td>25</td> <td>30</td> </tr> </tbody> </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	4	Beauty Parlour	15/10/2015 to 05/11/2015	18	35	5	Solar System	23/01/2017 to 22/02/2017	25	30	6	Basic Tailoring Course	14/09/2018 to 13/10/2018	25	60	7	Beauty	09/02/2019	25	30
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			Parlour to 10/02/2019		
8	Electrical gadget repairing course	09/02/2019 to 10/02/2019	25	30	
9	Tailoring course	14/11/2019 to 12/12/2019	25	41	
10	Beautician Course	27/02/2020 to 17/03/2020	Stopped due to COVID 19 (8 days of class remaining)	30	
	Total			351	

Till date (as on 31/03/2023), 419 Nos. of persons from local villages viz. Borgaon, Danoda&Wirur (Gadegaon) PAPs have been provided employment in the company. Further 62 Nos. have been provided with Monetary Compensation in lieu of employment for Rs. 11.67 Crores. Total Land Compensation paid till 31/03/2023 is Rs. 119.44 Crores which includes land compensation against government land.

In addition to this people from nearby villages approx 150 Nos. are deployed in contractual mining and civil works.

To ensure health and welfare of nereby villages, regular medical camps shall be organized at least once in six months.

Health camps are being conducted in nearby villages with our company doctors and medical staff for improving awareness and health consciousness among people.

Ix

Sr. No.	Name Of Village/ Location	No. of Beneficiaries	Date
1	Gadegaon	401	30-07-16
2	Gadegaon	226	10-05-17
3	Sakhara	316	22-11-17
4	Mungoli	173	26-06-18
5	Gadegaon	358	30-09-18
6	Sakhara	308	04-02-19
7	Kolgaon	231	09-02-19
8	Hirapur	364	03-03-19
9	Wirur	379	09-09-19
10	Sangoda	414	12-09-19
11	Borgaon	93	17-01-20
12	Sangoda	264	10-01-20
13	Khairgaon	223	07-02-20
14	Sakhara	192	22-02-20
15	Hirapur	249	13-03-20
16	Gadegaon	409	15-03-21
17	Gadegaon	279	11-02-22
18	Borgaon	141	07-11-22

		19	Hirapur	280	14-01-23																														
		<p>Frequent special camps at Rajiv Ratan Central Hospital Ghugus have been conducted related Blood Sugar test Camp, Diabetes & Sickle Cell test, Diagnostic & Blood Test, Laparoscopic TT Camp, Eye check up camp, Bone Disease checkup and Cancer Detection camp.</p> <p>CSR clinic is provided at Area Hospital, Rajiv Ratan Central Hospital for PAF. CSR day is scheduled on Monday and Thursday. An average of 1100 Nos. of people from project affected families from nearby villages of mines of Wani Area gets treated in the hospital every month.</p>																																	
X	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/ check the dust pollution.	<p>The mine has started mining operation in June 2015. Till date 60000 nos. plantation in 24.00 Ha of land has been carried out by Madhya Pradesh Rajya Van Vikas Nigam (MPRVVN) under long term MoU with maintenance of four years after each year of planting. The species of plants planted are shishu, Imli, Jambhul, Awala, Neem, Karanj, Bamboo, Raintree, Arjun, Amalthas.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>River/safety zone</th> <th>OB dump/embankment</th> <th>Plain</th> <th>Avenue / CTR</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2018- 19</td> <td>17000</td> <td>8000</td> <td>0</td> <td>0</td> <td>25000</td> </tr> <tr> <td>2019- 20</td> <td>0</td> <td>13800</td> <td>0</td> <td>1200</td> <td>15000</td> </tr> <tr> <td>2020- 21</td> <td>13000</td> <td>3000</td> <td>4000</td> <td>0</td> <td>20000</td> </tr> <tr> <td>Total</td> <td>30000</td> <td>24800</td> <td>4000</td> <td>1200</td> <td>60000</td> </tr> </tbody> </table> <p>From the above, it may be seen that, along the boundary on the river side 30000 Nos. saplings have been planted. Further, 24800 Nos. saplings have been planted on External OB Dump and over Embankment. On coal transportation road 1200 Nos. saplings and on plain land 4000 Nos. saplings have also been planted.</p>				Year	River/safety zone	OB dump/embankment	Plain	Avenue / CTR	Total	2018- 19	17000	8000	0	0	25000	2019- 20	0	13800	0	1200	15000	2020- 21	13000	3000	4000	0	20000	Total	30000	24800	4000	1200	60000
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Xi	Efforts shall be made for utilizing alternate sources off surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	<p>Surface water is not being used for mining and allied purposes. There is sufficient water available through abstraction of water from the mine. The mine water/seepage water is being collected in mines in the sump, initially it is being sedimented to free from any particles. The same water is being used for firefighting and dust suppression in mines.</p>																																	
Xi i	A third party assessment of EC compliance shall be undertaken through agency like ICFRI/	<p>Third party assessment has been done by NEERI on 23/03/2023 and report is awaited EC granted vide Ref NoJ-11015/46/2009-IA-II(M) dtd. 11-01-2019</p>																																	

	NEERI/IIT or any other expert agency identified by the ministry.	
Xi ii	In case of additional forest land, if any, after reconciliation/delineation, approval under the forest (conservation) Act, 1980 for its diversion to non-forestry use shall be obtained.	<p>Stage I In principal Forest Clearance is obtained for 46.06 Ha of land vide letter No. F. No. 8 – 10/2018-FC dtd. 18.05.2018. Further , in case of additional forest land after reconciliation / delineation approved under FC act‘ 1980 will be obtained. Copy of FC is enclosed as Annexure-IV.</p> <p>Diversion of 46.04 Ha forest land FAC observed total forest land involved in project is around 112 Ha. As per directives, a committee has been constituted vide Government Resolution no. FLD-3615/CR-295/F10 dt. 14.12.2018. Vide letter no. 9873 dt 22.12.2018 for delineation of forest land.</p> <p>Meeting of the committee held on 20.02.2019, in the office of APCCF/Nodal Officer, Nagpur. As per the directives given in the meeting, the user agency in consultation with the forest deptt. of Central Chanda has determined the forest land within Penganga lease hold area and submitted its report on 28.09.2020 to Dy. CF, Central Chanda for further scrutiny and needful in placing the report before the committee constituted. The report was presented before the office of CCF. The office of CCF has given direction for compliance of the instruction of the committee constituted regarding joint inspection of SDO, Rajura and Dy. CF, Central Chanda. Joint Inspection was done on 15/12/2020 and report prepared at Dy.CF level. Report submitted on 06/01/2021 to CCF Chandrapur for onward submission to APCCF.</p> <p>In the meantime, compliance report of 46.04 ha Stage - I FC has also been submitted to CCF, Chandrapur for further appraisal.</p>
4.1	The grant of environmental clearance is further subject to compliance of the generic conditions as under.	
a)	Mining	
I	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there- under as applicable.	Mining operations are being carried out and continue to be carried out as per provisions of Mines act 1952 and subordinate legislation made there under. No deviation is being made during operations.
ii	No change in mining method, calendar programme and	There is no change in mining method, calendar programme and scope of the work as given in the EC. The coal extracted since inception is given below and can be seen that there is no excess production beyond EC:

	scope of work shall be made without obtaining prior approval of the Ministry of Environmental, Forest and climate change.	Year	Coal (MT)	EC Capacity in MTPA	OB (Mm3)	
		2015-16	1.05	4.50	2.03	
		2016-17	2.70	4.50	2.40	
		2017-18	3.70	4.50	5.93	
		2018-19	6.30	6.30	12.72	
		2019-20	6.30	6.30	12.78	
		2020-21	5.25	6.30	14.71	
		2021-22	6.30	6.30	19.01	
		2022-23	5.706	6.30	18.367	
Iii	Mining shall be carried out as per the approved mining plan including mine closure plan, abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Mining is being 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). The same will continue to carried out in the balance life of the mine. In this regard, it may be worthwhile to mention here that, the claim for release of eligible claim under the Progressive Mine Closure for the first five year cycle since inception has been submitted to CCO after due third party audit by CSIR V- NEERI.				
Iv	No mining shall be carried out in forest land without obtaining forestry clearance as per forest (Conservation) Act, 1980 and also adhering to the scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian Forest Act, 1927.	No mining activity is being carried out in Forest Land. Forest Clearance is being pursued vigorously. The latest status in nutshell is given below:- Stage I In principal Forest Clearance is obtained for 46.06 Ha of land vide letter No. F. No. 8 – 10/2018-FC dtd. 18.05.2018. FAC observed total forest land involved in project is around 112 Ha. As per directives, a committee has been constituted vide Government Resolution no. FLD-3615/CR-295/F10 dt. 14.12.2018. Vide letter no. 9873 dt 22.12.2018 for delineation of forest land. Meeting of the committee held on 20.02.2019, in the office of APCCF/Nodal Officer, Nagpur. As per the directives given in the meeting, the user agency in consultation with the forest deptt. of Central Chanda has determined the forest land within Penganga lease hold area and submitted its report on 28.09.2020 to Dy. CF, Central Chanda for further scrutiny and needful in placing the report before the committee constituted. The report was presented before the office of CCF. The office of CCF has given direction for compliance of the instruction of the committee constituted regarding joint inspection of SDO, Rajura and Dy. CF, Central Chanda. Joint Inspection was done on 15/12/2020 and report prepared at Dy.CF level. Report submitted on 06/01/2021 to CCF Chandrapur for onward submission to APCCF. In the meantime, compliance report of 46.04 ha Stage - I FC has				

		also been submitted to CCF, Chandrapur for further appraisal.
B	Land reclamation and water conservation	
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 shall be submitted to Ministry of Environment, forest and climate change/ 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 every year and the data is available in the website of WCL. In this regard, Penganga OC has been included in the list from the year 2020 since grant of EC in 2019. The satellite data for Penganga OC mine for year 2022 is enclosed as Annexure-V . It may be worthwhile to mention that till date 60000 Nos. of plantation have been done in 24.00 Ha area. 25000 Nos. in 2018-19, 15000 Nos. in 2019-20 and 20000 Nos. in 2020-21. And further plantation will be taken up in subsequent years.
ii	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	<p>As indicated in previous points, the mining is being carried out as per the approved Mining Plan following all the provisions of Mines Act, 1952 and allied subordinate legislation as well as the DGM Circulars.</p> <p>As indicated in the approved Mining Plan, the mine area is falling below the HFL of Penganga River. As such, it is essential to protect the mine from the danger of surface water/ Inundation following the provisions of Coal Mines Regulation, 2017 and allied DGMS Circulars.</p> <p>Total length of embankment is 7.80 Km, out which 1760 m is along the Penganga river with base width 60m and top width of embankment is 30m. The height of the embankment is more than HFL (HFL of Penganga river = RL 185m, height of embankment = RL 188 to 192m, slope = 1:1).</p> <p>Stone pitching at critical patches have been done to withstand the peak water flow and mine inundation. The details of stone pitching with retaining wall is given below:</p> <ol style="list-style-type: none"> From Penganga Bridge to Weighbridge No. 5: Stone pitching – 201.00m x 12.00 m (avg) and retaining wall over length 201.00 m x 1.7m height. From Penganga bridge towards Gadegaon village: Stone pitching – 60.00m x 12.00 m (avg) and retaining wall over length 60.00 m x 1.7m height.

	<p>concerned state/GOI Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved mining plan and as per the permission of DGMS.</p>	<p>Garland drain along mine boundary and catch drain along OB dump is provided. Details are given below:</p> <ol style="list-style-type: none"> Garland Drain of dimension of length 5.6 Km x width 2.0 m x height 2.0 m is provided. Catch Drain of dimension – length 3.0 Km x width 2.0m x height 1.50 m is provided. <p>These garland drains and catch drains are cleaned before onset of monsoon on routine basis, so that danger of surface inundation is adequately controlled. The amount of silt removed in last three years is indicated below:-</p> <p>2018 - 8700 m³ 2019 - 9165 m³ 2020 - 8650m³ 2021-8572 m³ 2022- 7920 m³ 2023 (Upto 31March) – 4000 m³</p>																												
<p>iii</p>	<p>The final mine void depth should preferably be as per the approved Mine Closure Plan, in case it exceeds 40 m, adequate engineering interventions shall be for provided sustenance of aquatic life therein. The remaining area shall be backfilled and covered withthick shall and alive be top soil. Post-mining land be rendered usable for aricultural/forestry purposes and shall be handed over to the respective state government as specified in the guidelines for preparation of mine closure plan issued by the</p>	<p>At present mine is active and progressive mine closure activities are being executed. After closure of mine the final mine void depth, backfilling and afforestation will be done as per approved Mine closure plan. All the mining work as being carried out as present shall be continued.</p> <p>The Present Status of the mine is as follows (as on 31/03/2023)To be updated with the latest available data)</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>As per EC</th> <th>As on 31/03/2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Excavated Area (Ha)</td> <td>240.10</td> <td>202.32</td> </tr> <tr> <td>2</td> <td>Depth (m)</td> <td>170.00</td> <td>105.00</td> </tr> <tr> <td>3</td> <td>Backfilled Area on surface (Ha)</td> <td>53.00</td> <td>95.00 Ha partially backfilled, 20m above GL</td> </tr> <tr> <td>4</td> <td>External OB Dump Area (Ha)</td> <td>253.60</td> <td>219.88</td> </tr> <tr> <td>5</td> <td>Plantation (Ha)</td> <td>448.60</td> <td>24.00</td> </tr> <tr> <td>6</td> <td>Embankment/ Approach road (Ha)</td> <td>95.30</td> <td>40.29</td> </tr> </tbody> </table> <p>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. 08973161005875 was opened at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on date 31.03.2023 is Rs 541463111(Including the principal along with the interest).</p> <p>In this regard, it may be worthwhile to mention that progressive claim Mine Closure activities for first five years cycle (period</p>	Sr. No.	Description	As per EC	As on 31/03/2023	1	Excavated Area (Ha)	240.10	202.32	2	Depth (m)	170.00	105.00	3	Backfilled Area on surface (Ha)	53.00	95.00 Ha partially backfilled, 20m above GL	4	External OB Dump Area (Ha)	253.60	219.88	5	Plantation (Ha)	448.60	24.00	6	Embankment/ Approach road (Ha)	95.30	40.29
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Iv	The entire excavated area, backfilling, external OB dumping (including top soil) 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-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest Climate Change/Regional Office on six monthly basis.	<p>The salient features of progressive mine closure plan of the mine is as follows (as on 31/03/2023):-</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>As per EC</th> <th>As on 31/03/2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Excavated Area (Ha)</td> <td>240.10</td> <td>202.32</td> </tr> <tr> <td>2</td> <td>Depth (m)</td> <td>170.00</td> <td>105.00</td> </tr> <tr> <td>3</td> <td>Backfilled Area on surface (Ha)</td> <td>53.00</td> <td>95.00 Ha partially backfilled, 20m above GL</td> </tr> <tr> <td>4</td> <td>External OB Dump Area (Ha)</td> <td>253.60</td> <td>219.88</td> </tr> <tr> <td>5</td> <td>Plantation (Ha)</td> <td>448.60</td> <td>24.00</td> </tr> <tr> <td>6</td> <td>Embankment/ Approach road (Ha)</td> <td>95.30</td> <td>40.29</td> </tr> </tbody> </table> <p>Six monthly EC compliance report is regularly being submitted to Ministry of Environment, Forest Climate Change/Regional Office which comprises data sheet with data excavated area, backfilling, external OB dump including top soil & afforestation data. Online six monthly compliance report is submitted to ecompliance-mh@gov.in from waniarea.environddept@gmail.com for period April 2022 to September 2022.</p>	Sr. No.	Description	As per EC	As on 31/03/2023	1	Excavated Area (Ha)	240.10	202.32	2	Depth (m)	170.00	105.00	3	Backfilled Area on surface (Ha)	53.00	95.00 Ha partially backfilled, 20m above GL	4	External OB Dump Area (Ha)	253.60	219.88	5	Plantation (Ha)	448.60	24.00	6	Embankment/ Approach road (Ha)	95.30	40.29														
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V	The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilized with	<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. The quantity of top soil dump generated and OB dump generated from beginning of the mine is given below (data as on 31/03/2023):</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Dump Name</th> <th>Type of Soil (Black cotton/ Hard Soil)</th> <th>External/ Internal</th> <th>Area (in Ha)</th> <th>Height of Dump (in m)</th> <th>Volume (in Mm3)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>1</td> <td>Hard Soil (embankment)</td> <td>External</td> <td>49.50</td> <td>12m</td> <td>4.526</td> </tr> <tr> <td>2.</td> <td>2</td> <td>B C SOIL</td> <td>External</td> <td>6.977</td> <td>30m</td> <td>1.737</td> </tr> <tr> <td>3.</td> <td>2A</td> <td>B C SOIL</td> <td>External</td> <td>9.578</td> <td>15m</td> <td>0.917</td> </tr> <tr> <td>4.</td> <td>3</td> <td>B C SOIL</td> <td>External</td> <td>3.828</td> <td>15m</td> <td>1.172</td> </tr> <tr> <td>5.</td> <td>3A</td> <td>B C SOIL</td> <td>External</td> <td>6.847</td> <td>38m</td> <td>0.706</td> </tr> </tbody> </table>	Sr. No.	Dump Name	Type of Soil (Black cotton/ Hard Soil)	External/ Internal	Area (in Ha)	Height of Dump (in m)	Volume (in Mm3)	1.	1	Hard Soil (embankment)	External	49.50	12m	4.526	2.	2	B C SOIL	External	6.977	30m	1.737	3.	2A	B C SOIL	External	9.578	15m	0.917	4.	3	B C SOIL	External	3.828	15m	1.172	5.	3A	B C SOIL	External	6.847	38m	0.706
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<p>native grass species to prevent erosion and surface run off. 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 shall be submitted to the Ministry of Environment, Forest and Climate Change Regional Office on six monthly basis</p>	<table border="1"> <tr><td>6.</td><td>3B</td><td>B C SOIL</td><td>External</td><td>3.506</td><td>10m</td><td>0.586</td></tr> <tr><td>7.</td><td>3C</td><td>B C SOIL</td><td>External</td><td>14.255</td><td>15m</td><td>0.834</td></tr> <tr><td>8.</td><td>6</td><td>HARD SOIL</td><td>External</td><td>71.852</td><td>55m</td><td>18.426</td></tr> <tr><td>9.</td><td>6A</td><td>HARD SOIL</td><td>External</td><td>42.034</td><td>30m</td><td>11.082</td></tr> <tr><td>10.</td><td>7</td><td>BC SOIL</td><td>External</td><td>11.496</td><td>20m</td><td>1.550</td></tr> <tr><td>11.</td><td>9</td><td>HARD SOIL</td><td>External</td><td>9.847</td><td>30m</td><td>2.500</td></tr> <tr><td>12.</td><td>8</td><td>HARD SOIL</td><td>Internal</td><td>39.52</td><td>20m Above GL</td><td>14.143</td></tr> <tr><td>13.</td><td>10</td><td>HARD SOIL</td><td>Internal</td><td rowspan="2">30.91</td><td>Up to GL</td><td>4.600</td></tr> <tr><td>14.</td><td>10A</td><td>HARD SOIL</td><td>Internal</td><td>20m Above GL</td><td>5.900</td></tr> <tr><td>15.</td><td>11</td><td>HARD SOIL</td><td>Internal</td><td>6.14</td><td>Below GL</td><td>1.300</td></tr> <tr><td>16.</td><td>12</td><td>HARD SOIL</td><td>Internal</td><td>0.48</td><td>30 m Above dump No.08</td><td>11.6</td></tr> <tr><td>17.</td><td>13</td><td>HARD SOIL</td><td>Internal</td><td>9.74</td><td>30 m above dump 10A</td><td>11.6</td></tr> <tr><td>18.</td><td>13 A</td><td>HARD SOIL</td><td>Internal</td><td>10 Ha</td><td>Below GL</td><td>1.227</td></tr> <tr><td>19.</td><td>14</td><td>BC SOIL</td><td>External</td><td>0.00 (above old dump)</td><td>5 m above Hard dump 6A</td><td>3.337</td></tr> </table>	6.	3B	B C SOIL	External	3.506	10m	0.586	7.	3C	B C SOIL	External	14.255	15m	0.834	8.	6	HARD SOIL	External	71.852	55m	18.426	9.	6A	HARD SOIL	External	42.034	30m	11.082	10.	7	BC SOIL	External	11.496	20m	1.550	11.	9	HARD SOIL	External	9.847	30m	2.500	12.	8	HARD SOIL	Internal	39.52	20m Above GL	14.143	13.	10	HARD SOIL	Internal	30.91	Up to GL	4.600	14.	10A	HARD SOIL	Internal	20m Above GL	5.900	15.	11	HARD SOIL	Internal	6.14	Below GL	1.300	16.	12	HARD SOIL	Internal	0.48	30 m Above dump No.08	11.6	17.	13	HARD SOIL	Internal	9.74	30 m above dump 10A	11.6	18.	13 A	HARD SOIL	Internal	10 Ha	Below GL	1.227	19.	14	BC SOIL	External	0.00 (above old dump)	5 m above Hard dump 6A	3.337
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		<p>Till date 7.637 Mm3 of top soil have been stacked and 44.816 Mm3 of OB dump is stacked in 229.72 Ha of area. Further removal of top soil and OB Dump is in progress.</p> <p>Till date 24800 Nos. of saplings have been planted on embankment of mixed native species viz. neem, karanj, awala, gulmohar, sisu etc</p> <p>Six monthly EC compliance report comprising all the details is submitted to MoEF&CC on six monthly basis.</p>																																																																																																
	C	Emissions, effluents, and waste disposal																																																																																																
	I	<p>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</p> <p>The coal from the pithead is transported to Ghugus Railway Siding over WBM road of 4.50 Km, Concrete Road of 2.478 Km and Bitumen Road 9.76 Km by tarpaulin covered trucks. In the Railway siding , there are 14 Nos. 50 m throw fixed sprinklers/rainguns. In addition , there is one truck mounted mist spray system in operation at Railway Siding.</p> <p>For control of fugitive dust emission following measures are taken:</p>																																																																																																

	<p>sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM10/PM2.5) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/ State Pollution Control Board.</p>	<ol style="list-style-type: none"> 1. Along coal transportation road and at coal stock yard a total 30 nos high radial throw of 50m radius rain-guns have been provided and are under operation. 2. The water tankers deployed are given below: <ol style="list-style-type: none"> a. At coal transportation road upto Sakhara village- 2 Nos. 12KL water tanker Departmental b. On Haul Roads -2 Nos. of 28KL water tanker c. Contractual (Avatar Singh) 3 Nos. of 18KL Water tanker for dust suppression at contractual patch <p>One truck mounted mist spray system has been installed.</p> <p>Fugitive dust emission is monitored near Weighbridge at Penganga Check-post.</p> <p>Air quality standards at core zone follows GSR 742(E) standards and is monitored at 2 Nos. location i.e. near mine and Manager office.</p> <p>Ambient Air Quality is monitored based on NAAQS, 2009 at 2 Nos. buffer location i.e. at Virur and Gadegaon village.</p> <p>Ambient air quality is being monitored on fortnightly basis by CMPDIL, RI – IV, Nagpur and reports are being sent to Regional Office MoEF&CC and Regional Office Maharashtra Pollution Control Board, Chandrapur. The results are sent to Regional Officer, MoEF&CC Nagpur, Regional Officer MPCB Chandrapur and Sub Regional Officer Chandrapur MPCB through Email on six monthly basis (lastly sent on 28/05/2023 from email id waniarea.environdept@gmail.com) Environmental monitoring report from Oct 2022 to March 2023 enclosed as Annexure-IX</p>																														
ii	<p>Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area in a phased manner. The green belt comprising a mix of native species shall be developed all along the major approach/ coal transportation roads.</p>	<p>The mine has started mining operation in June 2015. Till date 60000 nos. plantation in 24.00 Ha of land has been carried out by Madhya Pradesh Rajya Van Vikas Nigam (MPRVVN) under long term MoU with maintenance of four years after each year of planting. The species of native saplings planted are Shishu, Imli, Jambhul, Awala, Neem, Karanj, Bamboo, Raintree, Arjun, Amalthas.</p> <table border="1"> <thead> <tr> <th>Year</th> <th>River/safety zone</th> <th>OB dump/embankment</th> <th>Plain</th> <th>Avenue / CTR</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>2018- 19</td> <td>17000</td> <td>8000</td> <td>0</td> <td>0</td> <td>25000</td> </tr> <tr> <td>2019- 20</td> <td>0</td> <td>13800</td> <td>0</td> <td>1200</td> <td>15000</td> </tr> <tr> <td>2020- 21</td> <td>13000</td> <td>3000</td> <td>4000</td> <td>0</td> <td>20000</td> </tr> <tr> <td>Total</td> <td>30000</td> <td>24800</td> <td>4000</td> <td>1200</td> <td>60000</td> </tr> </tbody> </table> <p>54800 nos plantation has been 21.92 Ha has been done in safety zone and on embankment till date which serves as green belt.</p> <p>From the above, it may be seen that, along the boundary on the river side 30000 Nos. saplings have been planted. Further, 24800</p>	Year	River/safety zone	OB dump/embankment	Plain	Avenue / CTR	Total	2018- 19	17000	8000	0	0	25000	2019- 20	0	13800	0	1200	15000	2020- 21	13000	3000	4000	0	20000	Total	30000	24800	4000	1200	60000
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		Nos. saplings have been planted on External OB Dump and over Embankment. On plain land 4000 saplings and Coal transportation road 1200 Nos. saplings have also been planted.
iii	The transportation of coal shall be carried out as per the provisions and route proposed in the approved Mining Plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	As per the Approved Mining Plan, coal transportation is to be carried out from the pithead (Surface Miner) to Ghugus Railway Siding through Road. The road is of 16.738 Km length out of which WBM road of 4.50 Km is WBM, 2.478 Km is concrete and 9.76 Km is bituminous. The coal transportation road has been constructed as per mining plan, the bypass, to avoid passing near Nakoda village, bitumen road has been constructed for movement of vehicles. Appropriate measures as per norms have been set up to avoid accidents like speed breakers are constructed, proper signals and glow boards are placed throughout coal transportation road.
iv	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.	The monitoring of ambient air quality in the mining area is fortnightly carried out. Vehicular emissions are being monitored on regular basis and controlled through PUC certificates which are mandatory requirement for all contractual vehicles as well as departmental vehicles.
v	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provided with dust	As per the approved Mining Plan, the coal extraction is being carried out through Surface miner. The coal coming out of Surface Miner is (-) 100 mm and does not require any further crushing. The coal thus produced is without drilling and blasting. So there is considerable elimination of significant dust generating sources. There is no CHP and allied infrastructure like crushers, conveyor belts, side cladding etc. Mobile crusher is provided for the coal

	<p>suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.</p>	<p>which cannot be extracted by the surface miner and provided with water sprinkling arrangement.</p> <p>At present there are only 3 drills at Penganga OC. All are fitted with dust extractor and in one drill, wet drilling provision alongside dust extractor is also provided.</p>
vi	<p>Coal handling plant shall be operated with effective control measures viz. bag filters/water or mist sprinkling system etc to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.</p>	<p>As per the approved Mining Plan, the coal extraction is being carried out through Surface miner. The coal coming out of Surface Miner is (-) 100 mm and does not require any further crushing. The coal thus produced is without drilling and blasting. So there is considerable elimination of significant dust generating sources. There is no CHP and allied infrastructure like crushers, conveyor belts, side cladding etc. Mobile crusher is provided for the coal which cannot be extracted by the surface miner and provided with water sprinkling arrangement.</p>
vii	<p>Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.</p>	<p>For day to day mining operations, water is used for dust suppression, and firefighting. The entire demand is met from the mine pumped out water of quantity 2620 m³/day. No groundwater is being extracted for any mining activities. For Conservation and augmentation of ground water resources, 03 nos. of roof top rain water harvesting structure and a check dam is provided. Details are placed below:</p> <ol style="list-style-type: none"> a. Sub Area office (Rooftop area – 277.62 m², recharge pit size – 2m x 2m x 1.5m and borehole depth – 50 m) b. Manager Office (Rooftop area – 176 m², recharge pit size – 2m x 2m x 1.5m and borehole depth – 45 m) c. Canteen building (Rooftop area – 216.48 m², Recharge pit size – 2m x 2 m x 1.5m and borehole depth – 50 m. d. Check dam of length – 350 m, width – 15 m and depth – 1.5m is made on local nallah passing within mine <p>As on date (upto 31/03/2023), out of 743.83Ha of land within mining lease area only 478.51 Ha (Broken land – 202.32 Ha, Ext Dump – 219.88 Ha, Road – 8.54 Ha (WBM, Bitumen & Concrete road) , Infrastructure – 0.97 Ha (with & without slanting roof) and Embankment 46.8 Ha) of land has been utilized for mining and allied activities.</p>

		<p>Remaining undisturbed land 265.32 Ha(35.67%),which has same rainwater absorption potential as pre mining condition.</p> <p>At present two Nos. groundwater level monitoring device have been installed to tap the piezometric head of Ground Water on continuous basis at shallow and deep aquifer of the mine at a depth of 40m and 121m respectively.</p>
vii i	<p>Catch/garland drains and siltation ponds of 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 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 collect in the sump shall be</p>	<p>Catch Drain of dimension – length 3.0 Km x width 2.0 m x height 1.50 m have been provided all along periphery of existing OB dump to arrest silt and sediment flow from the respective dump sites.</p> <p>Garland Drain of dimension of length 5.6 Km x width 2.0 m x height 2.0 m is provided along the mine boundary.</p> <p>These garland drains and catch drains are cleaned before onset of monsoon on routine basis, so that danger of surface inundation is adequately controlled. The amount of silt removed in last three years is indicated below:- 2018 - 8700 m³ 2019 - 9165 m³ 2020 - 8650m³ 2021 – 8572 m³ 2022 – 7920 m³ 2023 – 4000 m³</p> <p>Mine water after initial sedimentation in the mine sump is pumped out & collected into Ground water tank of 4 Lakh litre capacity for inhouse utilization.</p> <p>Mine water after initial sedimentation in the mine sump is pumped out & collected into RCC sedimentation pond for further settlement each having dimension Top - 23m x 14m, Bottom – 20m x 11m and 1.5m height.</p> <p>Mine water is initially collected in the sump of following dimension: 1. South side – Length – 220 m, width 20 m and height 12 m 2. Middle part - Length – 720m, Width- 70 m and heighth 12m 3. North side - Length – 320m, Width- 48 m and heighth 12 m</p> <p>The mine sump water is settled in the sump and super-natant water free from silt is entirely used for dust suppression and fire fighting. Approximately 2621 m³/day water is pumped for Dust Suppression and firefighting purpose. Mine water is being used completely no discharge is being done outside mine premises.</p> <p>02 nos of RCC sedimentation pond for further settlement of excess mine water during monsoon each having dimensions Top - 23m x</p>

	<p>utilised for dust suppression measures and green belt development. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps with in the mines 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>	<p>14m, Bottom – 20m x 11m and 1.5m height have been provided.</p> <p>Considering the present situation and the existing measures, there is no such requirement of toe wall at the OB dump.</p> <p>Plantation of 30000 Nos. of plants of mixed native species viz Neem, Karanj, Casia, Jamun, Sishu, Awala, Gulmohar, Jackfruit etc. have done between toe of the dump & river; and 24800 Nos. of plantation is done along the embankment till adjacent field.</p>
ix	<p>Industrial waste water generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the Environment (Protection) Act 1986 and the rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms. Sewage treatment plant of adequate capacity shall be installed for</p>	<p>There is no CHP in the mine as such there is no chances of effluent. ETP of 150 KLD is provided.</p> <p>At present, workshop with washing ramp have been constructed. The proposal for Effluent Treatment Plant is under approval and will be started immediately after award of the same.</p> <p>At present mine is operated through contractual means and all the HEMMS are washed and maintained by contractor.</p> <p>There is no colony in the mining lease area of Penganga OC. Employees of Penganga OC reside at Kailashnagar Colony of Mungoli Sub Area where 0.4 MLD STP is provided.</p> <p>28 KLD STP is provided in the SAM Office building of Penganga Sub Area.</p>

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x	Adequate groundwater recharge measures shall be taken up for augmentation of groundwater. The project authorities shall meet water requirement of nearby villages in case the village wells go dry due to de-watering of mine.	<p>For conservation and augmentation of ground water resources, 03 nos. of roof top rain water harvesting structure and a check dam is provided. Details are placed below:</p> <ol style="list-style-type: none"> Sub Area office (Rooftop area – 277.62 m², recharge pit size – 2m x 2m x 1.5m and borehole depth – 50 m) Manager Office (Rooftop area – 176 m², recharge pit size – 2m x 2m x 1.5m and borehole depth – 45 m) Canteen building (Rooftop area – 216.48 m², Recharge pit size – 2m x 2 m x 1.5m and borehole depth – 50 m. Check dam of length – 350 m, width – 15 m and depth – 1.5m is made on local nallah passing within mine <p>As on date (upto 31/03/2023), out of 743.83Ha of land within mining lease area only 478.51 Ha (Broken land – 202.32 Ha, Ext Dump – 219.88 Ha, Road – 8.54 Ha (WBM, Bitumen & Concrete road) , Infrastructure – 0.97 Ha (with & without slanting roof) and Embankment 46.8 Ha) of land has been utilized for mining and allied activities.</p> <p>Remaining undisturbed land 265.32 Ha(35.67%),which has same rainwater absorption potential as pre mining condition.</p> <p>At present two Nos. groundwater level monitoring device have been installed to tap the piezometric head of Ground Water on continuous basis at shallow and deep aquifer of the mine at a depth of 40m and 121m respectively.</p>																																												
D	Illumination, noise & vibration																																													
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 & its RO on six-monthly basis.	<p>Adequate Illumination has been provided as per the norms. Illumination is being monitored on regular basis as per guidelines of DGMS. The records of monitoring as on March 2023 is given below:-</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Place</th> <th>Standard Illumination</th> <th>Actual measured by Lux meter</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>KLP Dumping Area</td> <td>15H, 20V</td> <td>15H, 25V</td> </tr> <tr> <td>2</td> <td>Coal face Departmental</td> <td>15H, 25V</td> <td>15H, 25V</td> </tr> <tr> <td>3</td> <td>Sub station 33 Kv</td> <td>101H, 50V</td> <td>100H,52V</td> </tr> <tr> <td>4</td> <td>Pumping station</td> <td>29.9 H</td> <td>30.7H</td> </tr> <tr> <td>5</td> <td>Sub Station (11 Kv mine)</td> <td>12H</td> <td>14H</td> </tr> <tr> <td>6</td> <td>Coal stock No. 5</td> <td>15H, 21V</td> <td>15H, 22V</td> </tr> <tr> <td>7</td> <td>Excavation workshop</td> <td>90H, 46V</td> <td>92H, 48V</td> </tr> <tr> <td>8</td> <td>Pumping station near middle pump</td> <td>40H</td> <td>35H</td> </tr> <tr> <td>9</td> <td>Weigh bridge No. 3 & 4</td> <td>21H</td> <td>24H</td> </tr> <tr> <td>10</td> <td>Light vehicle road from</td> <td>10H</td> <td>8.9H</td> </tr> </tbody> </table>	Sr. No.	Place	Standard Illumination	Actual measured by Lux meter	1	KLP Dumping Area	15H, 20V	15H, 25V	2	Coal face Departmental	15H, 25V	15H, 25V	3	Sub station 33 Kv	101H, 50V	100H,52V	4	Pumping station	29.9 H	30.7H	5	Sub Station (11 Kv mine)	12H	14H	6	Coal stock No. 5	15H, 21V	15H, 22V	7	Excavation workshop	90H, 46V	92H, 48V	8	Pumping station near middle pump	40H	35H	9	Weigh bridge No. 3 & 4	21H	24H	10	Light vehicle road from	10H	8.9H
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ii	<p>Adequate measures shall be taken for control of noise levels below 85 dB(A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipment (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.</p>	<p>As detailed out in the approved EIA/EMP, adequate measures are taken for control of noise levels. These include maintenance of equipment, providing protective equipment to workmen. The workmen engaged in drilling, blasting, operation of HEMMs are invariably provided with Personal Protective Equipment (PPE) like ear plugs/muffs in conformity with the prescribed norms. The issuance of safety equipment like dust mask, safety jacket, helmet, mining shoe and gumboot is given below:</p> <table border="1"> <thead> <tr> <th>Sr. N o.</th> <th>Safety equipm ent</th> <th>201 7</th> <th>201 8</th> <th>201 9</th> <th>202 0</th> <th>202 1</th> <th>202 2</th> <th>2023(Upto 31 March)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Safety jacket</td> <td>886</td> <td>550</td> <td>550</td> <td>800</td> <td>350</td> <td>191</td> <td>326</td> </tr> <tr> <td>2</td> <td>Helmet</td> <td>101</td> <td>245</td> <td>350</td> <td>300</td> <td>400</td> <td>106</td> <td>33</td> </tr> <tr> <td>3</td> <td>Earplug</td> <td>180</td> <td>60</td> <td>450</td> <td>50</td> <td>0</td> <td>15</td> <td>0</td> </tr> <tr> <td>4</td> <td>Dust Mask</td> <td>900</td> <td>500</td> <td>500</td> <td>500</td> <td>0</td> <td>Nil</td> <td>0</td> </tr> <tr> <td>5</td> <td>Mining shoe</td> <td>713</td> <td>574</td> <td>909</td> <td>883</td> <td>893</td> <td>404</td> <td>176</td> </tr> <tr> <td>6</td> <td>Gumbo ot</td> <td>109</td> <td>210</td> <td>89</td> <td>337</td> <td>239</td> <td>285</td> <td>0</td> </tr> </tbody> </table> <p>Adequate awareness programme as per safety norms specified by DGMS are being rendered at Vocational Training Center at the Area Vocational Training Centre both Fresher as well as Refresher.</p> <p>Number of departmental and contractual workers trained is given below:</p> <p>Refreshers Training conducted from Oct 2022 to Mar 2023- 26 Nos.</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Year</th> <th>Departmental</th> <th>Contractual</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2017</td> <td>3</td> <td>196</td> </tr> <tr> <td>2</td> <td>2018</td> <td>10</td> <td>344</td> </tr> <tr> <td>3</td> <td>2019</td> <td>12</td> <td>341</td> </tr> <tr> <td>4</td> <td>2020</td> <td>99</td> <td>169</td> </tr> <tr> <td>5</td> <td>2021</td> <td>120</td> <td>739</td> </tr> <tr> <td>6</td> <td>2022</td> <td>87</td> <td>517</td> </tr> <tr> <td>7</td> <td>2023 (upto 31 March)</td> <td>12</td> <td>217</td> </tr> </tbody> </table>	Sr. N o.	Safety equipm ent	201 7	201 8	201 9	202 0	202 1	202 2	2023(Upto 31 March)	1	Safety jacket	886	550	550	800	350	191	326	2	Helmet	101	245	350	300	400	106	33	3	Earplug	180	60	450	50	0	15	0	4	Dust Mask	900	500	500	500	0	Nil	0	5	Mining shoe	713	574	909	883	893	404	176	6	Gumbo ot	109	210	89	337	239	285	0	Sr. No	Year	Departmental	Contractual	1	2017	3	196	2	2018	10	344	3	2019	12	341	4	2020	99	169	5	2021	120	739	6	2022	87	517	7	2023 (upto 31 March)	12	217		
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iii	Controlled blasting techniques shall be practiced in order	There is surface miner deployed at the mine for coal and thus no blasting involved in the operation of coal extraction. Whereas controlled blasting is practised for excavation of OB in the mine as per permission of Directorate General of Mines Safety (DGMS)																																																																																																	

	to mitigate ground vibrations and fly rocks as per the guidelines prescribed by the 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. The results of vibrometer is enclosed as Annexure-VI																																																												
iv	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to ministry/ RO on six monthly basis.	The noise level survey is being carried out by CMPDIL on fortnightly basis and reports are being sent in six months to Regional officer, MPCB and MOEFCC. The latest report is attached here and the summary is placed below:- <table border="1"> <thead> <tr> <th rowspan="3">Sr.No.</th> <th rowspan="3">Date</th> <th colspan="2">WORKSHOP</th> </tr> <tr> <th colspan="2">Noise Level in dB(A)</th> </tr> <tr> <th>Day Time</th> <th>Night Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>15-04-2022</td> <td>64.4</td> <td>62.1</td> </tr> <tr> <td>2</td> <td>25-04-2022</td> <td>64.4</td> <td>62.3</td> </tr> <tr> <td>3</td> <td>11-05-2022</td> <td>64.4</td> <td>62.1</td> </tr> <tr> <td>4</td> <td>25-05-2022</td> <td>65.5</td> <td>63.4</td> </tr> <tr> <td>5</td> <td>10-06-2022</td> <td>56.9</td> <td>55.2</td> </tr> <tr> <td>6</td> <td>25-06-2022</td> <td>62.3</td> <td>60.4</td> </tr> <tr> <td>7</td> <td>12-07-2022</td> <td>61.4</td> <td>58.7</td> </tr> <tr> <td>8</td> <td>27-07-2022</td> <td>58.5</td> <td>56.1</td> </tr> <tr> <td>9</td> <td>08-08-2022</td> <td>62.1</td> <td>59.4</td> </tr> <tr> <td>10</td> <td>24-08-2022</td> <td>62.7</td> <td>59.8</td> </tr> <tr> <td>11</td> <td>08-09-2022</td> <td>60.7</td> <td>58.1</td> </tr> <tr> <td>12</td> <td>26-09-2022</td> <td>56.6</td> <td>54.4</td> </tr> <tr> <td colspan="2">Limit as per Noise pollution (Regulation and Control) Rules</td> <td>75</td> <td>70</td> </tr> </tbody> </table> The work zone noise level is monitored at workshop where avg daytime noise level is 63.42 dB (A) (permissible limit 75 db(A)) and night time is 60.86 dB (A) (permissible limit 70 db(A))	Sr.No.	Date	WORKSHOP		Noise Level in dB(A)		Day Time	Night Time	1	15-04-2022	64.4	62.1	2	25-04-2022	64.4	62.3	3	11-05-2022	64.4	62.1	4	25-05-2022	65.5	63.4	5	10-06-2022	56.9	55.2	6	25-06-2022	62.3	60.4	7	12-07-2022	61.4	58.7	8	27-07-2022	58.5	56.1	9	08-08-2022	62.1	59.4	10	24-08-2022	62.7	59.8	11	08-09-2022	60.7	58.1	12	26-09-2022	56.6	54.4	Limit as per Noise pollution (Regulation and Control) Rules		75	70
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i	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records accordingly as per	Continuous monitoring of occupational safety and health hazard is conducted through 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. The medical examination is done separately for Departmental as well as Contractual workers at Rajiv Ratan Central Hospital, Ghugus. The hospital is well equipped with all medical instruments, paramedics and doctors needed for conducting PME and IME.																																																												

	<p>the provision of the mines rules, 1955 and DGMS circulars. Beside regular periodic check up, 20 % 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.</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> <p>Details of both PME & IME conducted in last six year is given below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>PME</th> <th>Contractual IME</th> <th>Departmental IME</th> </tr> </thead> <tbody> <tr><td>1</td><td>2017</td><td>75</td><td>340</td><td>32</td></tr> <tr><td>2</td><td>2018</td><td>117</td><td>316</td><td>68</td></tr> <tr><td>3</td><td>2019</td><td>156</td><td>373</td><td>487</td></tr> <tr><td>4</td><td>2020</td><td>173</td><td>62</td><td>207</td></tr> <tr><td>5</td><td>2021</td><td>298</td><td>815</td><td>20</td></tr> <tr><td>6</td><td>2022</td><td>192</td><td>923</td><td>5</td></tr> <tr><td>7</td><td>2023 upto 31 March</td><td>28</td><td>171</td><td>0</td></tr> </tbody> </table> <p>Further, under Vocational Training, various awareness programmes of duration from 12 to 18 days are conducted round the year covering topics viz coal mining statute, organization structure, safety policy of company, handling of HEMM, safety on surface mine and precaution to be taken, danger from moving HEMM, safety from falling object, safe handling of explosive and surface, firefighting arrangement on the surface, use of PPE, first aid, husekeeping, quality awareness etc. for both departmental and contractual workers.</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Year</th> <th>Departmental</th> <th>Contractual</th> </tr> </thead> <tbody> <tr><td>1</td><td>2017</td><td>3</td><td>196</td></tr> <tr><td>2</td><td>2018</td><td>10</td><td>344</td></tr> <tr><td>3</td><td>2019</td><td>12</td><td>341</td></tr> <tr><td>4</td><td>2020</td><td>99</td><td>169</td></tr> <tr><td>5</td><td>2021</td><td>120</td><td>739</td></tr> <tr><td>6</td><td>2022</td><td>87</td><td>517</td></tr> <tr><td>7</td><td>2023 (upto Mar)</td><td>12</td><td>217</td></tr> </tbody> </table> <p>From the results of IME & PME it is observed that there is no occurrence of any noticeable / reportable diseases. Further, it is observed that the prevailing health issues in the employees and family members are of low to moderate intensity which are usually observed in rural and urban populations and are not specific to occurrence due to mining activities.</p> <p>It may be seen that there is neither any incidence of occupational disease as per Mining Statute nor any report of hearing impairment.</p>	Sr. No.	Year	PME	Contractual IME	Departmental IME	1	2017	75	340	32	2	2018	117	316	68	3	2019	156	373	487	4	2020	173	62	207	5	2021	298	815	20	6	2022	192	923	5	7	2023 upto 31 March	28	171	0	Sr. No	Year	Departmental	Contractual	1	2017	3	196	2	2018	10	344	3	2019	12	341	4	2020	99	169	5	2021	120	739	6	2022	87	517	7	2023 (upto Mar)	12	217
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3	2019	156	373	487																																																																						
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ii	<p>Personnel (including outsourcing employees) working in dusty</p>	<p>All the personnel including outsourcing employees are being provided with protective respiratory devices and adequate training and information on safety and health at VTC.</p> <p>Nos. Of PPE issued is given below:</p>																																																																								

	<p>areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.</p>	<table border="1"> <thead> <tr> <th>Sr. No</th> <th>Safety equipment</th> <th>2017</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> <th>2022</th> <th>2023</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Safety jacket</td> <td>886</td> <td>550</td> <td>550</td> <td>800</td> <td>0</td> <td>191</td> <td>326</td> </tr> <tr> <td>2</td> <td>Helmet</td> <td>101</td> <td>245</td> <td>350</td> <td>300</td> <td>325</td> <td>106</td> <td>33</td> </tr> <tr> <td>3</td> <td>Earplug</td> <td>180</td> <td>60</td> <td>450</td> <td>50</td> <td>0</td> <td>15</td> <td>0</td> </tr> <tr> <td>4</td> <td>Dust Mask</td> <td>900</td> <td>500</td> <td>500</td> <td>500</td> <td>0</td> <td>Nil</td> <td>0</td> </tr> <tr> <td>5</td> <td>Mining shoe</td> <td>713</td> <td>574</td> <td>909</td> <td>883</td> <td>805</td> <td>404</td> <td>176</td> </tr> <tr> <td>6</td> <td>Gumboot</td> <td>109</td> <td>210</td> <td>89</td> <td>337</td> <td>135</td> <td>285</td> <td>0</td> </tr> </tbody> </table> <p>Number of departmental and contractual workers trained at VTC is given below:</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Year</th> <th>Departmental</th> <th>Contractual</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2017</td> <td>3</td> <td>196</td> </tr> <tr> <td>2</td> <td>2018</td> <td>10</td> <td>344</td> </tr> <tr> <td>3</td> <td>2019</td> <td>12</td> <td>341</td> </tr> <tr> <td>4</td> <td>2020</td> <td>99</td> <td>169</td> </tr> <tr> <td>5</td> <td>2021</td> <td>120</td> <td>739</td> </tr> <tr> <td>6</td> <td>2022</td> <td>87</td> <td>517</td> </tr> <tr> <td>7</td> <td>2023 (upto 31 Mar)</td> <td>12</td> <td>217</td> </tr> </tbody> </table>	Sr. No	Safety equipment	2017	2018	2019	2020	2021	2022	2023	1	Safety jacket	886	550	550	800	0	191	326	2	Helmet	101	245	350	300	325	106	33	3	Earplug	180	60	450	50	0	15	0	4	Dust Mask	900	500	500	500	0	Nil	0	5	Mining shoe	713	574	909	883	805	404	176	6	Gumboot	109	210	89	337	135	285	0	Sr. No	Year	Departmental	Contractual	1	2017	3	196	2	2018	10	344	3	2019	12	341	4	2020	99	169	5	2021	120	739	6	2022	87	517	7	2023 (upto 31 Mar)	12	217
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i	<p>The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. The action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.</p>	<p>There is no endangered flora/fauna as per baseline data generated for Flora and Fauna in Environment Impct Assessment / Environment Management Plan.</p> <p>As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna.</p> <p>The study details is enclosed as Annexure-VII. It may be worthwhile to mention here that, till date 60,000 saplings have already been planted in the mine lease area. The species of plants planted are shishu, Imli, Jambhul, Awala, Neem, Karanj, Bamboo, Raintree, Arjun, Amalthas. So with the development of such vegetation cover, it is expected that the scenario would be much better in terms of green cover vis - a - vis the pre-mining condition.</p>
g	<p>Public hearing, R&R and CSR</p>	
i	<p>Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land outsees 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 and all the issues will be ensured addressed during public hearing. Land outsees have been 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> <p>Copy of Minutes of public hearing & compliance is enclosed as Annexure-VIII.</p> <p>The major issue raised during public hearing was related to employment and rehab site.</p> <p>Till date (as on 31/03/2023), 419 Nos. of persons from local villages viz. Bargaon, Danoda&Wirur (Gadegaon) PAPs have been provided employment in the company. Further 62 Nos. have been provided with Monetary Compensation in lieu of employment for Rs. 11.67 Crores. Total Land Compensation paid till 31/03/2023 is Rs. 119.44 Crores.</p> <p>Rehabilitation Action Plan recommended by the Collector, Chandrapur and administratively approved by WCL on 11.05.2018 for 404 families. Out of which 385 families have opted for M/C in lieu of plot at resettlement site and 19 families have opted for plot at resettlement site.</p> <p>Out of 404 families to be shifted, 385 families have been shifted by providing Monetary Compensation in lieu of plot by disbursing Rs 36.00 Crores approx. towards house compensation and Monetary compensation (as on 31/03/2023).</p>

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ii	The project proponent shall ensure the expenditure towards socio-economic development in and around the mine, in every financial year as per the Corporate Social Responsibility Policy as per the provisions under Section 135 of the Companies Act, 2013	Various works has been taken up under corporate social responsibility is given below:																																																																	
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	9	2019-20	Borgaon Village	Distemping painting etc in ZP school and providing and fixing submersible pump set with HDPE pipe at Borgaon village under CSR activities under Penganga OCP	10.08
	10	2019-20	Hirapur Village	Providing paver block in front of ZP school at Hirapur village under CSR activities under Penganga OCP	1.03
2020-21					
	12	2020-21	Khairgaon	Construction of of CC road at Khairgaon of 220m length	3.42
	13	2020-21	Hirapur	Rainwater harvesting at Hirapur Village	1.45

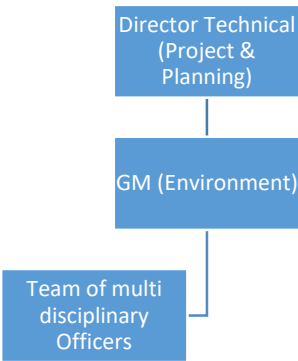
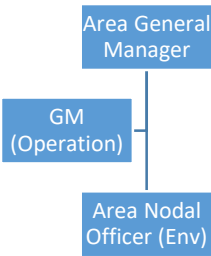
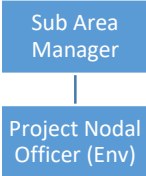
CSR expenditure of Wani Area

Sr. No.	Year	Expenditure (Amount in lakhs)
1	2016- 17	59.40
2	2017- 18	36.90
3	2018- 19	35.44
4	2019- 20	29.42
5	2020- 21	32.95
6	2021-22	19.71
7	2022-23	58.32

iii	<p>The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.I1 (M) dated 29th October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects</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.I1 (M) dated 29th October, 2014.</p> <p>As per the approved Mining Plan, Wirur (Gadegaon) village located in the mine lease area, is proposed to be relocated at a new site. There is adequate financial provision for shifting of 404 families for Rs. 41.88 Crores (as per Project Report). The present status of relocation is as given below:</p> <p>Rehabilitation Action Plan recommended by the Collector, Chandrapur and administratively approved by WCL on 11.05.2018 for 404 families. Out of which 385 families have opted for M/C in</p>
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	<p>wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.</p>	<p>lieu of plot at resettlement site and 19 families have opted for plot at resettlement site.</p> <p>Out of 404 families to be shifted, 385 families have been shifted by providing Monetary Compensation in lieu of plot by disbursing Rs 36.00 Crores approx. towards house compensation and Monetary compensation (as on 31/03/2023).</p> <p>For rehabilitation of 19 families, a Rehab site of 0.925 Ha of village Khairgaon 2 has been acquired through direct purchase. Work of development of Rehab site is completed and all the families have been shifted to the rehab site. House compensation has been provided to 17 Nos. of families.</p> <p>Till date (as on 31/03/2023), 419 Nos. of persons from local villages viz. Borgaon, Danoda&Wirur (Gadegaon) PAPs have been provided employment in the company. Further 62 Nos. have been provided with Monetary Compensation in lieu of employment for Rs. 11.67 Crores. Total Land Compensation paid till 31/03/2023 is Rs. Rs. 119.44 Crores including land compensation against govt. land.</p>
iv	<p>The project proponent shall make necessary alternative arrangements. if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.</p>	<p>No prominent grassland was found in core zone as per baseline data generated for Flora and Fauna in Environment Impact Assessment / Environment Management Plan.</p> <p>So, there is no necessity of making alternate arrangement for livestock grazing.</p> <p>The study details is enclosed as Annexure-VII.</p>
h	<p>Corporate Environment responsibility</p>	
i	<p>The Company shall have a well laid down environment policy duly</p>	<p>Coal India Limited (CIL) has formulated a comprehensive Environment Policy only in March 2012, followed by a revised policy in December 2018 approved by CIL Board in its 377th Meeting held on 20th December'2018 for implementation at CIL and its subsidiaries.</p>

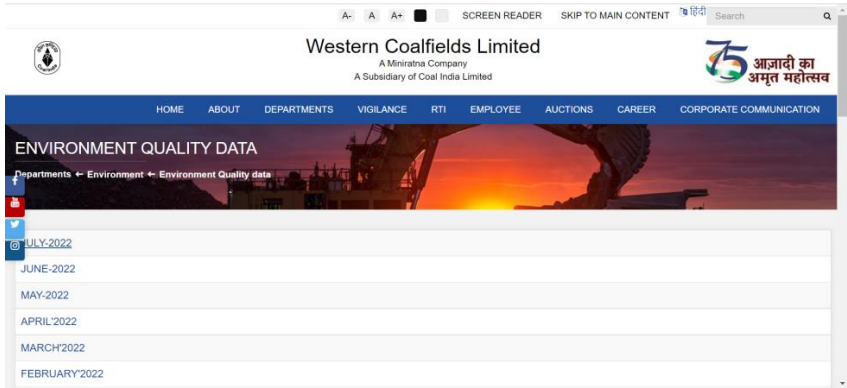
	<p>approved by Board of Directors. The environment policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation /violation of the environmental or forest norms/conditions. Also, the company shall have a defined system of reporting of non-compliance /violations of environmental norms to the Board of Directors and/or shareholders/ stakeholders.</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> <p>To deal with environmental issues and for ensuring compliance with environmental clearance conditions, At project level Environmental management cell is headed by Sub Area Manager and is assisted by Project Nodal officer (Env).</p> <p>At area level, Area General Manager, Heads the environment cell and is assisted by General Manager (Op) and Nodal officer (Env).</p> <p>At corporate level at HQ, there is full fledged Environment Department which is headed by General Manager (Env) with a multi disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.</p> <p>In this regard, it may be mentioned here that at the Company Level a Sustainable Development Cell has been set up with multi disciplinary officials. This cell is being monitored at the level of Director of the Company and further monitoring is being also done by CIL and thereafter at the highest level.</p>
<p>ii</p>	<p>The project proponent shall comply with the provisions contained in this Ministry's OM dated 1st May, 2018, as applicable, regarding Corporate Environment Responsibility.</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-303/2018/429 dated 03.09.2018. Further, as per the latest O.M. dated 20.10.2020, the commitments made in Public Hearing are being done within the provisions of the Project.</p>
<p>iii</p>	<p>The hierarchical system or Administrative Order of the company to deal</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>

	<p>with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.</p>	<p style="text-align: center;">WCL HQ LEVEL</p>  <pre> graph TD DT["Director Technical (Project & Planning)"] --- GM["GM (Environment)"] GM --- TDO["Team of multi disciplinary Officers"] </pre> <p style="text-align: center;">AREA LEVEL</p>  <pre> graph TD AGM["Area General Manager"] --- GM["GM (Operation)"] GM --- ANO["Area Nodal Officer (Env)"] </pre> <p style="text-align: center;">SUB AREA LEVEL</p>  <pre> graph TD SAM["Sub Area Manager"] --- PNO["Project Nodal Officer (Env)"] </pre>
<p>iv</p>	<p>A separate environmental management cell both at the project and company headquarter level, with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.</p>	<p>At project level, the Environmental management cell headed by Sub Area Manager and is assisted directly by Project Nodal Officer (Env). At Area level, Area General Manager heads the cell and is assisted by GM (Op) & Area Nodal Officer (Env). GM (Env) heads the environment department at HQ/corporate level with a multi-disciplinary team of qualified & experienced Engineers.</p>
<p>v</p>	<p>Action plan for implementing EMP and</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 this</p>

	<p>environmental conditions shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures 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 Office along with the Six Monthly Compliance Report.</p>	<p>funds are not diverted by any means. The environment expenditure made is accounted and reported in six monthly compliance sent to Regional officer and MOEF.</p> <p>The expenditure incurred for Capital and Revenue work (including plantation, dust suppression, consent fees, environment monitoring etc.) for Penganga OC is given below:</p> <p>Capital expenditure (as on 31/03/2023) – 2.09 Crores comprising of CAAQMS, sedimentation tank, ETP , raingun installed from coalstockyard to haul road, 1 No. Truck mounted mist spray system etc.</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 6 years is listed below: 2015 -16 – 36.08 Lakhs 2016-17 – 129.98 Lakhs 2017-18 – 356.17 Lakhs 2018-19- 456.25 Lakhs 2019-20 – 484.35 Lakhs 2020-21 – 2.02 Crores 2021 -22 – 1.42 Crores 2022-23 – 1.35 Crores</p>
vi	<p>Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</p>	<p>Self internal environmental audit system has been setup in the company. 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 was conducted for 1st quarter of FY 2022-23.</p> <p>Every three years the third party environment audit will be carried out. The work of third part assessment of EC compliance has been awarded vide letter no. WCL / ENV/ HQ/ 20-K / 51 dated 07.08.2019 to NEERI – expert agency identified by the ministry. The inspection of Penganga OC has been carried out on dated 16.08.2019. The final report submitted by NEERI is enclosed as Annexure-III.</p> <p>The report as enclosed has not recorded any non - compliance based on the verification at the site.</p> <p>NEERI has carried out 3rd party audit in march 2023 and final report is awaited.</p>
I	Statutory Obligations	
i	The environmental clearance shall be	Noted.

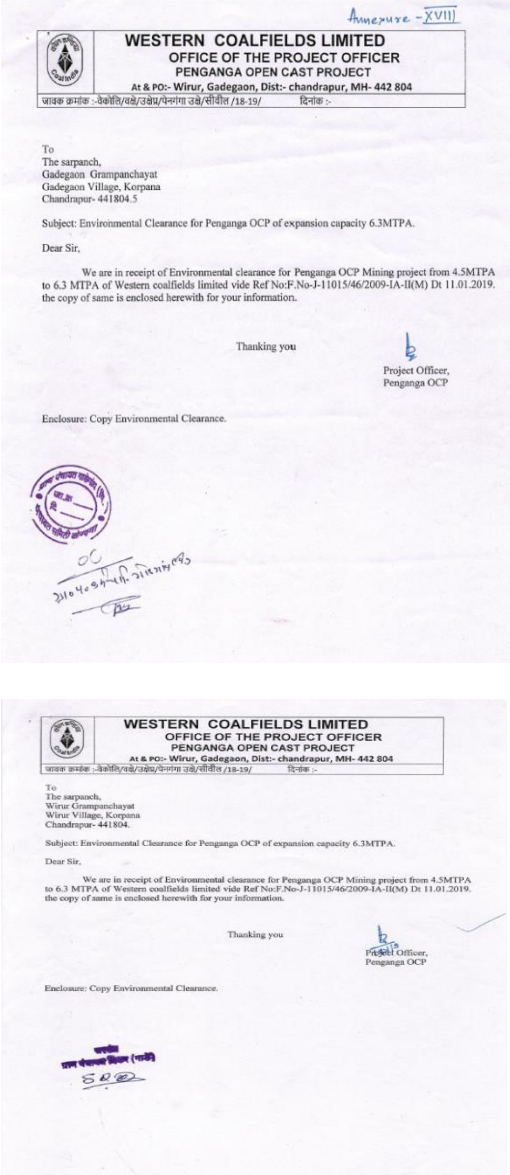
	subject to orders of Hon'ble Supreme Court of india, Hon'ble High Court, NGT and any other Court of Law from time to time, and as applicable to the project,	
ii	This environmental clearance shall be subject to obtaining wildlife clearance, if applicable, from the Standing Committee of National Board for Wildlife.	No endangered fauna was observed in core and buffer zone as per the baseline data generated for Flora and Fauna detailed out in Environment Impact Assessment/Environment Management Plan. As such wildlife clearance is not applicable. The study details is enclosed as Annexure-VII .
iii	The project proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and the Water Act, 1974 from the concerned State Pollution Control Board.	The consent to establish & operate has been obtained from the Maharashtra Pollution Control Board vide letter No. Red/LSI Consent no : Format 1.0/BO/CAC-cell/CAC-UAN No 63699 and 63749/ CAC- 1902001161 Date 25.02.2019.which is valid till 31.03.2022. Further renewal of Consent to Operate has been applied from 01/04/2022 to 31/03/2024. CTO renewal for capacity 6.3 MTPA has been applied for validity till 31.03.2025 vide application no: MPCB-CONSENT-0000166191. The copy of consent is enclosed as Annexure - I
iv	The project proponent shall obtain the necessary permission from the Central Ground Water Authority (CGWA).	CGWA NOC has been secured for Penganga OC mine vide NOC no. CGWA/NOC/MIN/ORIG/2019/5530 with a validity from 10.06.2019 to 09.06.2021. CGWA NOC renewal application submitted with requisite documents / fees on 08.06.2021. Competent Authority of CGWA has approved the NOC renewal vide dated 22.05.2022. As directed IAR with modelling report has been submitted. The requisite groundwater abstraction charges also paid in Bharatkosh portal, as directed. As on date, formal issuance of the CGWA NOC is awaited. The copy of groundwater NOC is enclosed as Annexure - II .
J	Monitoring of Project	
i	Adequate ambient air quality monitoring stations shall be established in the core zone as well	Four monitoring stations has been established in the project. Two core zones stations i.e. Sub station and SAM office. Two buffer zone stations has been established at villages namely Kailashnagar township filter plant and Tubewell in Sakhara. SPM, PM10, PM 2.5, SOx, NOx is being monitored regularly at this stations on fortnightly basis.

	<p>as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOX. Location of the stations shall be decided based on the meteorological data, topographical data 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 stations 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.</p>	<p>Location of the stations has been decided based on the meteorological data, topographical data features and environmentally and ecologically sensitive targets and the same has been communicated to MPCB.</p> <p>Online air monitoring station is installed at location 19°50'28.77"N, near sedimentation tank but due to multiple system failure machine is not operational. Another CAAQMS is installed at adjacent Mungoli Nirguda deep OC Mine at 19°52'15.89"N, 79° 6'44.25"E near kolgaon checkpost at downwind side. This CAAQMS acts crosswind to Penganga OC mine. Moreover additional 1 No. CAAQMS is under procurement process and will be commissioned in FY 2023-24.</p> <p>Further, heavy metal monitoring is also being done once in every six months.</p> <p>Copy of monitoring report and heavy metal monitoring is enclosed as Annexure-IX.</p>
ii	<p>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 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient</p>	<p>The Ambient Air Quality monitoring in the core zone is carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25.9.2000. Simultaneously, heavy metals such as Hg, As, Ni, Cd, Cr are also being monitored at six monthly interval.</p> <p>Copy of monitoring report is enclosed as Annexure-IX.</p> <p>The results are sent to Regional Officer, MoEF&CC Nagpur, Regional Officer MPCB Chandrapur and Sub Regional Officer Chandrapur MPCB through Email (sent from email id waniarea.environdept@gmail.com)</p>

	air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to the CPCB/SPCB.	
iii	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.	The effluent discharge (mine waste water) is monitored on fortnightly basis in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000. The results are sent to Regional Officer, MoEF&CC Nagpur, Regional Officer MPCB Chandrapur and Sub Regional Officer Chandrapur MPCB through Email (From email id waniarea.environtdept@gmail.com).
iv	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-20012/1/2006-1A.11 (M) dated 27 .05.2009 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. 
v	Regular monitoring of ground water level and quality shall be carried out in and around the	Regular monitoring of ground water level from existing wells at 19 locations of Buffer zone is being done by M/s. Anacon Laboratories Pvt. Ltd. Nagpur, for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons as per EC condition in 23 buffer location.

	<p>mine lease area by establishing a network of 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 monitored once a year, and the data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change/Regional Office.</p>	<p>At present two Nos. groundwater level monitoring device have been installed to tap the piezometric head of Ground Water on continuous basis at shallow and deep aquifer of the mine at a depth of 40m and 121m respectively Quality of groundwater as per IS: 10500 : 2012 is being analyzed once a year. The monitoring report is regularly sent to Regional Officer, CGWB Nagpur with a copy to MoEF&CC & CPCB. The monitoring results is attached at Annexure-X. The results of water level monitoring show that , there is no decline in water level in the villages in buffer zone. The quality of ground water is also satisfactory.</p>
vi	<p>Monitoring of 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.</p>	<p>Surface water quality analysis is done for 18 parameters once in six months. Monitoring of water quality upstream and downstream of Penganga river is enclosed in Annexure-IX.</p>
vii	<p>The project proponent shall submit six</p>	<p>Submission of six monthly compliance report for the period April 2022 to September 2022 was done through Email to ecompliance-mh@gov.in from waniarea.environdept@gmail.com.</p>

	monthly reports on the status of the implementatton of the stipulated environmental conditions to the Ministry of Environnment, Forest and Climate Charige/Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years.	
vii i	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monit oring reports.	Noted. Full cooperation will be extended to all the statutory Govt Bodies for monitoring and the required information/ data will be submitted.
K	Miscellaneous	
i	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	All the electrical equipment installed like tubelight and fans are power saving in nature. LED fittings are provided in the mine to conserve energy Details of light fittings as on 31/03/2023 are given below: 1. LED fitting 48 W – 57 Nos. 2. LED fitting 70 W- 17 Nos. 3. LED fitting 90 W – 10 Nos. 4. LED fitting 100 W – 40 Nos. 5. LED fitting 150 W – 120 Nos. 6. LED fitting 300 W – 90 Nos. 7. LED fitting 500 W – 18 Nos.

ii	The project authorities shall inform to the Regional Office regarding commencement of mining operations.	Informed with submission of six monthly report vide letter WCL/WA/POCP/PO/CIVIL/ENV/2019-20/504 dtd. 18/12/2019
iii	A copy of the environmental clearance shall be marked to concerned Panchayat. A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional Office, District Industry Sector and Collector's Office/Tehsildar Office for information in public domain within 30 days.	<p>EC was circulated to grampanchayat Wirur and Gadegaon.</p>  <p>The image shows two copies of environmental clearance letters. The top letter is addressed to the Sarpanch of Gadegaon Grampanchayat, Korjama, Chandrapur-441804. The bottom letter is addressed to the Sarpanch of Wirur Grampanchayat, Wirur Village, Korjama, Chandrapur-441804. Both letters are from the Project Officer of the Penganga Open Cast Project, Western Coalfields Limited. They mention the receipt of environmental clearance for the expansion of the Penganga OCP from 4.5 MTPA to 6.3 MTPA and enclose a copy of the clearance for the recipient's information. The letters are dated 11.01.2019. There are handwritten signatures and stamps on the letters, including a purple circular stamp on the Gadegaon letter and a blue stamp on the Wirur letter.</p>
iv	The EC shall be uploaded on the company's website. The compliance status of the stipulated EC conditions shall also be uploaded by the	EC is uploaded on WCL website. Six monthly compliance status is also uploaded in WCL website.

	<p>project authorities on their website and updated at least once every six months so as to bring the same in public domain.</p>	
<p>v</p>	<p>The project authorities shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry,</p>	<p>Environment Clearance copy was advertised in Newspaper 1. Chandrapur Samachar dtd. 29.01.2019 2. Mahavidharba dtd. 29.01.2019 EC copy was uploaded in MPCB online portal and environmentclearance.nic.in</p>  
<p>vi</p>	<p>The environmental statement for each financial year ending 31 March in Form-V is mandated to be submitted by the project proponent for the concerned State Pollution</p>	<p>Environment Statement Form- V is being submitted regularly at online portal of Maharashtra Pollution Control Board website and also uploaded in Western Coalfields Limited official website. The latest Environment statement was submitted on 20/08/2022 for FY 2021-22. Copy of Environment statement is enclosed as Annexure-XI</p>

	Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF & CC by e-mail. Concerns raised during public hearing.	
vii	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/High Courts and any other Court of Law relating to the	Noted.

	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 issues raised during public hearing shall also be implemented in letter and spirit.	Every effort is being made to fulfill the commitments and recommendations made in the EIA/EMP report and public hearing.
6	The proponent shall obtain all necessary clearances/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.	Production for enhanced quantity started only after obtaining permission from Maharashtra Pollution Control Board. Consent to Establish and Operate was obtained vide letter no. BO/CAC Cell/UAN No. 63699 and 63749/ CAC- 1902001161 dtd. 25/02/2019.
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	Noted and no illegal mining is being done in the project.

	<p>liable to pay the compensation against the illegal mining, if any, and raised by the respective state Governments at any point of time, in terms of the orders dated 2nd August , 2017 of Ho'ble supreme court in WP (Civil) No. 114/2014 in the matter of common cause Vs Union of India & others.</p>	
9	<p>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 proponent through their respective department of mining & geology, in strict compliance of the judgement of Ho'ble Supreme Court.</p>	<p>Noted and no illegal mining is being done in the project.</p>
10	<p>This environmental clearance shall not be operational till such time the project proponent complies with the above said judgement of Ho'ble Supreme court, as applicable, and other statutory</p>	<p>Noted.</p>

	requirements	
11	This issues in supersession of the earlier EC granted vide letter No.J-11015/46/2009-14.11 (M) dated 31st January,2013.	Noted.

Yours faithfully



Sub Area Manager
Penganga opencast Project