



पर्यावरण विभाग

वेस्टर्न कोलफील्ड्स लिमिटेड  
Western Coalfields Limited

(मिनिरत्ना कंपनी) (A Miniratna Company)  
(कोल इंडिया लि० की मूल्यो कंपनी)

(A Subsidiary of Coal India Limited)

क्षेत्रीय महाप्रबंधक कार्यालय, माजरी क्षेत्र

Office of the Area General Manager, Majri Area  
Po: Kuchna; Th: Bhadrawati; Dist: Chandrapur - 442503



भारत 2023 INDIA

Environment Department

संदर्भ संख्या/ Ref. No. वेकोलि/माक्षे/क्षेमप्र/पर्यावरण/2024/133

दिनांक/ Date :26.05.2024

प्रति,

Addl. Principal Chief Conservator of Forests,

- पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय,  
क्षेत्रीय कार्यालय (WCZ),  
शाउंड फ्लोर, ईस्ट विंग, न्यू सेक्रेटरियट बिल्डिंग,  
सिविल लाइंस, नागपुर-440001, (महाराष्ट्र)

विषय: Six Monthly Report against compliance of conditions of Environmental Clearance letter for Amalgamated Yekona I & II Opencast Coal Mine Project of Majri Area, WCL (As on As on 31<sup>st</sup> March 2024)

- संदर्भ: 1. Environment Clearance letter no. J-11015/381/2015-IA.II(M) Dt.01.01.2021  
2. Environment Clearance Amendment letter dated 06.02.2024

महोदय,

Please find enclosed herewith Six Monthly Report against compliance of conditions of Environmental Clearance letter for Amalgamated Yekona I & II Opencast Coal Mine Project of Majri Area, WCL (As on 31<sup>st</sup> March 2024).

This is for your kind information and necessary action please.

धन्यवाद

भवदीय

क्षेत्रीय केन्द्रस्थ अधिकारी (पर्यावरण),

माजरी क्षेत्र

संलग्नक : यथोपरी.

प्रतिलिपि :

- प्रादेशिक अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, उद्योग भवन, प्रथम तल, रेल्वे स्टेशन रोड, चंद्रपुर - 442 401
- क्षेत्रीय महाप्रबंधक, माजरी क्षेत्र
- महाप्रबंधक (पर्यावरण), व०० को०० लि०० मुख्यालय, नागपुर
- उप-क्षेत्रीय प्रबंधक, येकोना उपक्षेत्र



**WESTERN COALFIELDS LIMITED**  
**MAJRI AREA**

**AMALG. YEKONA I & II OC MINE**

**2.75 MTY CAPACITY**

**EC COMPLIANCE REPORT**

**AS ON 31<sup>ST</sup> MARCH 2024**

**PART-I**

Name of the project	<b>Amalgamated Yekona - I &amp; II OC Mine</b>
Location and Address	Office of the Area General Manager, Western Coalfields Limited, Majri Area At + PO. Kuchna, Ta. Bhadrawati, Dist. Chandrapur, Maharashtra 442503
Address for correspondence	Office of the Area General Manager, Western Coalfields Limited, Majri Area At + Po. Kuchna, Ta. Bhadrawati, Dist. Chandrapur, Maharashtra 442503
MOEF's clearance letter no. & date	J-11015/381/2015-IA.II(M) 01 <sup>st</sup> January 2021
Period of status report	As on 31 <sup>st</sup> March 2024
Date of last report submission	25.11.2023
Date of commencement of project work	01.04.2021

**STATUS OF LAND ACQUISITION:**

Type of land	Required as per EMP (Ha)	Actual acquired (Ha) as on 31.03.2024
Forest	Nil	Nil
Agriculture	1620.80	1591.91
Other	58.59	58.3
Total	1679.39	1650.21

**STATUS OF LEGAL COMPLIANCES:**

a.	Consent under Air (Prevention & Control of Pollution) Act	CTO Renewal granted vide letter no. Format1.0/CAC/UAN No. MPCB-CONSENT-0000160739/CR/2307001123 dated 18.07.2023 valid upto 31.03.2025 for 2.75 MTY capacity.
b.	Consent under Water (Prevention & Control of Pollution) Act	
c.	Consent under Water (Prevention & Control of Pollution) Cess Act	
d.	Environment (Protection) Act	Environment Clearance obtained vide no. J-11015/381/2015-IA.II(M) dtd 01.01.2021 for 2.75 MTY capacity.
e.	Forest (Conservation) Act	Not applicable.

**PART - II**  
**STATUS OF ENVIRONMENT**

**AIR POLLUTION CONTROL:-**

- a. No. of ambient air monitoring stations : Five  
Monitoring stations have been fixed in consultation with CMPDI RI-IV, Nagpur. Monitoring has been started from Nov 2015.
- b. Name of the location:
1. Panzurni village
  2. Pit office
  3. Ashti village
  4. Dangaon Village
  5. Hiwra Mazara Village
- c. Ambient air quality status for the parameters prescribed by State Pollution Control Board (Average 95% time weighted values):

Sl.No	Location	SPM	RPM	SO2	Nox
1.	Pit Office	Enclosed CMPDIL monitoring reports for the period October 2023 to March 2024			
2.	Panzurni Village				
3.	Ashti Village				
4.	Dandgaon Village				
5.	Hiwra Majra Village				

**WATER POLLUTION CONTROL:**

- a. No. of stations and frequency of monitoring: Four
- b. Description of locations: Mine water discharge of Yekona I & Yekona II OC, Workshop ETP and STP
- c. Average concentration of major pollutants prescribed by State pollution Control Board (fig. in mg/lit except pH) :

Sl. No	Location	pH	BOD	COD	DO	TSS	O/G
	Mine water discharge Workshop ETP STP	Enclosed CMPDIL monitoring reports for the period October 2023 to March 2024					

**NOISE POLLUTION CONTROL:**

- a. No. of noise monitoring stations:- Three
- b. Description of location and dB(A) value:-

Sl.No	Location	DAY	NIGHT
1.	Pit office	Enclosed CMPDIL monitoring reports for the period October 2023 to March 2024	

**PART-III**  
**STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP**

**LAND USE STATUS:-**

All values in Mm<sup>3</sup>

S. N	Particulars	Yekona I OC		Yekona II OC	
		01.10.23 to 31.03.2024	Prog. As on 31.03.2024	01.10.23 to 31.03.2024	Prog. As on 31.03.2024
1.	Area excavated (Ha)	5.359	49.04	23.842	134.05
2.	OB removed (Mm3) Excl. top soil	0.47	3.802	9.058	41.636
3.	Top soil removed Mm3)	1.988	5.661	0.94	11.472
4.	OB backfilled (Mm3)	0.47	1.51	8.085	11.501
5.	OB dumped (Mm3)	Nil	2.292	0.973	30.135
6.	Top Soil Dumped	1.988	4.776	0.94	9.349
7.	Top Soil utilised	Nil	0.885	0.00	2.123
8.	Physical reclamation	Nil	Nil	Nil	Nil

Note: Plantation on Top Soil dump of Yekona I OC Mine & Yekona II OC Mine shown under top soil utilization

Sl.No	Particulars	As per EMP	Yekona I OC as on 31.03.2024	Yekona II OC as on 31.03.2024	Amalg. Yekona as on 31.03.2024
1.	Area excavated (Ha)	689.20	49.04	134.05	183.09
2.	OB removed (Mm3) Excl. top soil	456.03	3.802	41.636	45.438
3.	Top soil removed Mm3)	NA	5.661	11.472	17.133
4.	OB backfilled (Mm3)	322.53	1.51	11.501	13.011
5.	OB dumped (Mm3)	133.50	2.292	30.135	32.427
6.	Top Soil Dumped		4.776	9.349	14.125
7.	Top Soil utilised		0.885	2.123	3.008
8.	Area recovered for reclamation	physical reclamation	Nil	Nil	Nil
9.	Area reclaimed biologically means Tree plantation on backfilled area	Biological reclamation	Nil	Nil	Nil

**Status of Top Soil & OB:**

Year	Mine Quarry	Top Soil		Hard OB		
		in Embankment	in Top Soil Dump	in Embankment	in OB Dump	Backfilled
2020-21	YEKONA I	0.500 Mm <sup>3</sup>	1.76 Mm <sup>3</sup>	NIL	1.281 Mm <sup>3</sup>	NIL
2021-22	YEKONA I	0.286 Mm <sup>3</sup>	0.267 Mm <sup>3</sup>	NIL	0.975 Mm <sup>3</sup>	0.113 Mm <sup>3</sup>
2022-23	YEKONA I	0.099 Mm <sup>3</sup>	0.683 Mm <sup>3</sup>	NIL	0.036 Mm <sup>3</sup>	0.647 Mm <sup>3</sup>
2023-24	YEKONA I	NIL	2.066 Mm <sup>3</sup>	NIL	NIL	0.75 Mm <sup>3</sup>
2017-18	YEKONA II	0.311 Mm <sup>3</sup>	0.073 Mm <sup>3</sup>	NIL	0.094138 Mm <sup>3</sup>	NIL
2018-19	YEKONA II	0.2890 Mm <sup>3</sup>	0.198163 Mm <sup>3</sup>	0.13857 Mm <sup>3</sup>	0.595942 Mm <sup>3</sup>	NIL
2019-20	YEKONA II	0.302207 Mm <sup>3</sup>	0.310326 Mm <sup>3</sup>	NIL	1.003222 Mm <sup>3</sup>	NIL
2020-21	YEKONA II	0.021993 Mm <sup>3</sup>	0.856007 Mm <sup>3</sup>	NIL	1.235 Mm <sup>3</sup>	NIL
2021-22	YEKONA II	1.200 Mm <sup>3</sup>	3.093 Mm <sup>3</sup>	NIL	6.99 Mm <sup>3</sup>	NIL
2022-23	YEKONA II	NIL	3.10 Mm <sup>3</sup>	NIL	10.164 Mm <sup>3</sup>	3.416 Mm <sup>3</sup>
2023-24	YEKONA II	NIL	1.716 Mm <sup>3</sup>	NIL	9.907 Mm <sup>3</sup>	8.085

**PRODUCTION:-**

- (i) Targeted Capacity: - 2.75 MTY (Amalg. YEKONA I & II OC)  
(ii) Present Capacity: - 2.749 MTY (Actual production 23-24)

**AFFORESTRATION :-** (figures in '000)

Sl.No	Location	Progressive (as on 31 <sup>st</sup> March 2024 )
1.	Top Soil Dump	65,000 nos. (26 Ha)
2.	OB Dump	NIL
3.	Embankments	NIL
4.	Green belt along mine boundary	15,000 nos. (6 Ha)
5.	Backfilled areas	NIL
6.	Other areas/ Avenue Plantation	5,000 nos. (2 Ha)
	Total	120,000 nos. (48 Ha)

Area under plantation (Progressive): - 48 Ha

No. of plants per Hectare :- 2500 Nos/Ha

Species planted: - Jamun, Amla, Neem, Karanj, Baheda, Sirus, Peltafarm, Safed Sirus, Sissoo, Gulmohar, Casia

**REHABILITATION & RESETTLEMENT :-**

Sl.No	Particulars	SC	ST	Others
1.	No. of land oustees	1270 nos.		
2.	No. of land oustees rehabilitated	Nos. of employment given = 881		
3.	No. of PAPS/PAFS to be resettled	Monetary Compensation given = 121		
4.	No. of PAPS/PAFS resettled	No Claim = 10		
5.	Area of new site (Ha)	Balance Employment cases = 268		
6.	Status of development	Land compensation = Rs 313.80 Crore		
7.	Civic amenities provided at new resettlement site	Monetary Compen.= Rs 34.28 Crores		

Organizational setup at project level :-

(Name and designation of the personnel to be given)

1. Shri Gautam Rai, Sub Area Manager
2. Shri K.G. Dupare, Manager (Mining)/Mine Manager
3. Shri Venkatesh Gorak, Dy. Manager(Civil)/Nodal Officer(Env)

**EXPENDITURE :-****CAPITAL (Rs in Lakhs)**

Account head	01.10.2023 to 31.03.2024	Progressive (As on 31 <sup>st</sup> March 2024)
Reclamation (HEMM)	Nil	Nil
Air pollution control	Nil	Rs 70.00 lakhs
Water pollution control	Nil	Rs. 58.28 lakhs
Others (CAAQMS, Piezometer, Water meters etc)	6.28	Rs 102.8 Lakhs
<b>TOTAL</b>		<b>Rs 231.08 Lakhs</b>

**REVENUE (Rs in Lakhs)**

Account head	01.10.2023 to 31.03.2024	Progressive (As on 31 <sup>st</sup> March 2024)
Afforestation	Rs 12.12 Lakhs	Rs 182.60 Lakhs
Monitoring	Rs 73.62 Lakhs	Rs 221.19 Lakhs
Statutory expenses	Rs 0.05 Lakhs	Rs 104.33 Lakhs
Air pollution control	Rs 28.13 Lakhs	Rs 88.32 Lakhs
Water pollution control	Rs 12.82 Lakhs	Rs 25.07 Lakhs
Others	Rs 33.63 Lakhs	Rs 51.70 lakhs
Ground water abstraction charges	Rs 105.61 Lakhs	Rs 165.25 Lakhs
<b>TOTAL</b>		<b>Rs 839.45 Lakhs</b>

**PART -IV**

Project : Amalgamated Yekona-I& II OC Mine Project  
 Clearance letter No. : J-11015/381/2015-IA.II(M) **Date : 01.01.2021**  
 EC Amendment Letter : J-11015/381/2015-IA.II(M) **Date : 15.03.2024**

SR.NO.	Condition	Compliance as on date																					
4(i)	The Environment Clearances issued vide letter no. vide letter J-11015/175/2006-IA. II(M) Dated 17 October 2006 and J-11015/182/2006-IA. II(M) Dated 17 October, 2006 shall be applicable along with conditions.	Noted and same is being complied. (Copy of latest EC along with Amendment enclosed as Annexure 1)																					
(ii)	The proponent shall obtain Consent to Establish/ Operate from the State Pollution Control Boards for the proposed capacity of 2.75MTPA prior to commencement.	CTE granted vide letter no. format 1.0/CAC/UAN no. 0000104421 /CE - 2105001339 dated 31.05.2021  CTO Renewal granted vide letter no. Format1.0/CAC/UAN No. MPCB-CONSENT-0000160739/CR/2307001123 dated 18.07.2023 valid upto 31.03.2025  (Copy of CTE, CTO enclosed as annexure 2 & 3)																					
(iii)	Third party monitoring (by NEERI/CIMFR/IIT/NITs) for air quality shall be carried out at identified locations. Both ambient and the process area, to arrive at impact of the proposed expansion at regular interval of 3 years.	Work for 3 <sup>rd</sup> party monitoring of air quality is awarded to VNIT Nagpur vide Work Award letter no. WCL/MA/AGM/ENV/2023/167 dated 24.07.2023 for a period of 1 year i.e. from Oct 2023 to Sept 2024. Copy of report for the month of Oct 2023 to March 2024 enclosed  (Copy of monitoring reports enclosed as annexure 4)																					
(iv)	Top soil should be stored separately at marked area and necessary vegetation shall be maintained to avoid any entrainment of dust.	Top soil is being stored at designated Top Soil dump only  Grass seeding and plantation is done on both top soil dump to avoid fugitive dust from dump.  <table border="1"> <thead> <tr> <th>Dump</th> <th>Area</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td align="center" colspan="3"><b>YEKONA I OC</b></td> </tr> <tr> <td>BC Dump1</td> <td>9.50 Ha</td> <td>29 m</td> </tr> <tr> <td>BC Dump2</td> <td>24.55 Ha</td> <td>12 m</td> </tr> <tr> <td align="center" colspan="3"><b>YEKONA II OC</b></td> </tr> <tr> <td>BC Dump1</td> <td>14.80 Ha</td> <td>34 m</td> </tr> <tr> <td>BC Dump2</td> <td>40.00 Ha</td> <td>32 m</td> </tr> </tbody> </table>	Dump	Area	Height	<b>YEKONA I OC</b>			BC Dump1	9.50 Ha	29 m	BC Dump2	24.55 Ha	12 m	<b>YEKONA II OC</b>			BC Dump1	14.80 Ha	34 m	BC Dump2	40.00 Ha	32 m
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		Photographs of the Top Soil Dumps enclosed as annexure 5)
(v)	PP shall construct embankment leaving 100 mtrs away from HFL of Wardha river and the same shall be taken prior approval from DGMS	Embankment is constructed as per mining plan in such a way that the rise in water (shifting of HFL) due to construction of embankment will not affect mine as well as nearby villages  Embankment is constructed for Yekona I OC Mine (Length: 2.40 kms, Height: 10 mtrs (avg.), Width at top: 30 mtrs and width at bottom: 50 mtrs) & for Yekona II OC Mine (Length: 4.40 kms, Height: 10 mtrs (avg.), Width at top: 30 mtrs and width at bottom: 50 mtrs)
(vi)	ORIGINAL CONDITION: Transportation of coal from coal handling plan shall be through mechanized covered trucks for 3 years. No transportation by trucks after 3 years and proposed railway siding/pipe conveyer system.  AMENDED CONDITION (Amendment dtd 15.03.24): Transportation of Coal from the mine shall be through tarpaulin covered trucks till the commissioning of proposed railway Siding i.e. by December 2026. No transportation by trucks after Dec'2026 except for small scale industry/ consumers.	Mechanically closed trucks are not provided by any truck maker for coal in India. However, tarpaulin covering is being ensured for all the coal transportation trucks.  The work of Railway Siding is awarded to IPRCL and same is started and expected to be completed by Dec 2026.  (Agreement with IPRCL and photographs of site enclosed as annexure 6 & 7)
(vii)	All the villages coming under the zone of influence as in hydrology study shall be provided with suitable water supply along with sanitation facility	Due to availability of waterbodies such as Wardha River in West-South West, Dahiwal nalla in North and irrigation canal towards East direction, there is no scarcity of water in the vicinity.  However, Borewell is provided in Charurkhati village and handpumps are provided in Marda and Yekona village to comply the Water supply arrangements for the villages under zone of influence.  (Photographs of the said works enclosed as annexure 8)
(viii)	Commitment made during public consultation process shall be adhere to. As proposed, Rs.45.35 Crore is earmarked for CER activities shall be considered as part of Environment Management Plan,	CER Provision as per EIA EMP is of Rs 3.63 Crore is envisaged.  The work of providing Borewell in Charurkhati village and handpumps in

	which shall be accomplished within period of 5 years.	Marda and Yekona village, Concrete and blacktopped roads in Yekona Village, Drains in nearby villages are done as per the commitment made during public hearing. (List of CSR Activities enclosed as Annexure 9)
(ix)	Water quality and bioassay test of Wardha River shall be monitored quarterly and submitted to State Pollution Control Board. No water shall be discharged in river.	Surface Water quality and bioassay test of Wardha River is being monitored quarterly. Report of same is being submitted to MPCB, MOEF Regional offices along with six monthly EC Compliance report. (Copy of Surface water reports of the QE Dec 2023 & March 2024 enclosed as annexure 10, and Bio Assay test report for the QE Dec 2023 and March 2024 enclosed as annexure 11)
(x)	Quarterly monitoring of quality of water from bore hole used for drinking purpose shall be conducted and report thereof shall be submitted to SPCB.	Drinking water monitoring is being done on quarterly basis through CMPDIL. (copy of reports of the sampling of QE Dec 2023 & March 2024 enclosed as annexure 12)  Report of same is being submitted to MPCB, MOEF Regional offices along with six monthly EC Compliance report.
(xi)	Progressive backfilling of mine and progressive reclamation of OB dump shall be done	Backfilling is being done as per mining plan.  As on 31.03.2024, 1.51 Mm <sup>3</sup> of hard OB is being backfilled in the void of Yekona I OC mine and 11.501 Mm <sup>3</sup> of hard OB is being backfilled in the void of Yekona II OC mine.  Reclamation of Top soil dump of both Yekona I OC mine and Yekona II OC Mine is already been done by plantation and grass seeding
(xii)	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	Most of the Coal crushing is being done by Surface Miner to avoid fugitive emission  Mobile crusher is also being provided with Mist Spray Arrangements for dust suppression at source at Yekona I OC Mine.

		<p>Also, fixed sprinklers are provided at coal stockyards, Weigh Bridge. Fog Cannons of 100 mtrs throw are also installed at various locations to control dust at source</p> <p>Photographs of Air pollution control system enclosed as annexure 13</p>															
(xiii)	<p>Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient fixed type water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at loading and unloading points, etc.</p>	<p>6 nos. fixed sprinklers are provided at Weigh Bridge of Yekona I OC and 30 nos. fixed sprinklers are provided at coal stockyard &amp; weigh bridge of Yekona II OC</p> <p>5 nos. Fog cannon of 100 mtrs throw with 320 deg rotation installed at Coal stockyard, weigh Bridge, Mobile Crusher, Coal Transportation road etc</p> <p>Mist spray arrangement in mobile crusher</p> <p>As on date, 20,000 nos. trees over an area of 8 Ha (plain land &amp; Avenue Plantation) is planted as wind barrier and green belt between mine and Yekona village, 100,000 nos. over an area of 40 Ha on Top Soil Dump.</p> <table border="1"> <thead> <tr> <th>FY</th> <th>Nos.</th> <th>Area (Ha)</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>25,000 Nos.</td> <td>10 Ha</td> </tr> <tr> <td>2022-23</td> <td>50,000 Nos.</td> <td>20 Ha</td> </tr> <tr> <td>2023-24</td> <td>45,000 Nos.</td> <td>18 Ha</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>120,000 Nos.</b></td> <td><b>48 Ha</b></td> </tr> </tbody> </table> <p>Photographs of Tree Plantation enclosed as annexure 14</p>	FY	Nos.	Area (Ha)	2021-22	25,000 Nos.	10 Ha	2022-23	50,000 Nos.	20 Ha	2023-24	45,000 Nos.	18 Ha	<b>TOTAL</b>	<b>120,000 Nos.</b>	<b>48 Ha</b>
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(xiv)	<p>Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.</p>	<p>Regular PME of departmental as well as contractual worker is being done for Occupational and other health hazards.</p> <p>During Year 2023-24, PME of 59 Deptt. employees, IME of 16 Departmental employees and 201 Contractual employees was done at Amalg. Yekona I &amp; II OC Mine.</p> <p>VTC training during 2023-24 is given to 48 Departmental Employees and 140 Contractual employees was given</p> <p>PME/ IME details and record of medical camp is enclosed as annexure 15</p>															

(xv)	<p>The total industrial water demand (peak) in operation phase shall be met by utilizing treated mine discharge water. If require, necessary arrangement shall be made to reuse treated water from STP&amp;ETP to nearby TPP or coal washery /or future coal washery by entering suitable agreement. No wastewater (treated or untreated) shall be discharged into the river or any other water body.</p>	<p>Water demand for fire-fighting, dust suppression etc is met through mine discharge only.</p> <p>ETP effluent is being reused for gardening purpose.</p> <p>STP will be provided whenever the colony for the mine will be constructed.</p> <p>Photographs of water pollution control system enclosed as annexure 16</p>
(xvi)	<p>PP shall take permission of state public works Department before the proposed diversion of Road. Road between Naidev village to Warora shall be constructed by project proponent in co-ordination with PWD atleast 7 mts width and tree plantation shall be done along with road (both sides).</p>	<p>The Road between Naidev village to Warora is outside Project Boundary, hence, will not be diverted.</p> <p>Portion of Warora – Madheli PWD Road, which is within the project boundary, same will be diverted with the permission of PWD Deptt with tree plantation on both sides of road for atleast 7 mts width.</p>
(xvii)	<p>STP for proposed colony shall be constructed within one year of implementation of colony</p>	<p>There is no dedicated colony for this mine, STP for colony will be provided whenever the colony will be constructed</p>
(xviii)	<p><b>ORIGINAL CONDITION:</b> Toe wall of atleast 15 mts to 20 mts height should be constructed along the OB dump to protect Yekona village.</p> <p><b>AMENDED CONDITION</b> (Amendment dtd 15.03.24): PP shall implement the recommendation made by VNIT by June 2024 for the stability of OB Dump and allied protection of Yekona village. There should not be any dumping toward the Yekona village side and additional measures be taken to ensure that the village is not endangered.</p>	<p>Only Top Soil overburden dump is present against the habitation of Yekona Village. Height of Top Soil dump is only 34 mtrs &amp; same is finalised, no further dumping or heightening will be done. Plantation and grass seeding of top soil dump is done, which helped in stabilisation of the dump.</p> <p>The distance between toe of the dump and Yekona village is more than 100 mtrs and in between tree plantation about 10,000 nos. in width of about 100 mtr is already been done. Also, Garland drain along OB dump and siltation pond at the toe of dump is also constructed to arrest the silt, water and dump material.</p> <p>Also, to ascertain the requirement of Toe Wall based on scientific data, the work is awarded to VNIT Nagpur vide Work Award letter no. WCL/MA/AGM/ENV/2023/198 dated 02.09.2023.</p>

		<p>As per the report submitted by VNIT Nagpur, based on the dump height, remedial measures taken by the mine and other geological parameters assessed during the field investigation, VNIT recommended various additional <b>measures for further strengthening of dump, same is being implemented on priority basis. However, as per the report, there is no requirement of Toe Wall of 15 to 20 mtrs height.</b> (Copy of Abstract of report &amp; recommendation of VNIT Nagpur reg. Toe Wall scientific study enclosed as annexure 17)</p> <p>Photographs of Preventive measures such as Plantation on dump and Measures such as Slope Correction, Grass Seeding, Garland Drain, Stone pitching on toe of Top soil dump etc as per VNIT recommendation enclosed as annexure 18</p>
(xix)	5 Fog canon shall be installed to reduce the impact of air pollution for nearby yekona village.	<p>5 nos. Fog cannon of 100 mtrs throw with 320 deg rotation is installed at Coal stockyard, Weigh Bridge, Mobile Crusher, Coal transportation road etc.</p> <p>Photographs of Fog Cannons enclosed as annexure 19</p>
(xx)	Water storage ponds shall be constructed of appropriate depth in nearby villages (Pandurni village, Wanoja village, Naydev village and Mohbala village) in collaboration with Gram Panchayats	<p>Rain water harvesting pond of dimension 50 m x 30 m x 1.2 m near Yekona Village road (at North - North East Boundary of mine) is dug to recharge ground water level.</p> <p>Photographs of Rain Water Harvesting system enclosed as annexure 20</p> <p>Additional, Water storage pond will be constructed if any nearby village demand for the same.</p>
(xxi)	Peripheral tree plantation of local species in nearby village (Panjurni village, Wanoja village, Naydev village and Mohbala village) in collaboration with Gram Panchayats	<p>120,000 nos. trees of native species over an area of 48 Ha are planted near Yekona Village since FY 2021-22. Out of this 10,000 nos. over an area of 4 Ha as green belt/ wind barrier/ Peripheral tree plantation is near the Yekona village habitation (planted in FY 2021-22).</p> <p>Additional Peripheral tree Plantation along mine boundary near Panjurni village, Wanoja village, Naydev village</p>

		and Mohbala village will also be taken up in phased manner
(xxii)	Fund allocated in Approved Wildlife conservation plan for schedule I species shall be deposited within six months of issue of EC letter.	Fund of Rs 35 Lakhs allocated for GIB Conservation was deposited to DFO, Chandrapur vide Cheque no. 013366 dated 06.08.2020. Implementation report given by DFO, Chandrapur vide letter no. कक्ष-३/योजना/चन्द्र/21-२२/800 dtd 04.01.22 & and कक्ष-३/योजना/GIB/23-24/1679 dtd 11.10.2023 (Copy of letters enclosed as annexure 21 & 22)
(xxiii)	Green belt along the boundary should be developed on priority basis preferably within first 3 years	120,000 nos. trees of native species over an area of 48 Ha are planted near Yekona Village since FY 2021-22. Out of this 10,000 nos. over an area of 4 Ha as green belt/ wind barrier/ Peripheral tree plantation is near the Yekona village habitation (planted in FY 2021-22).  Plantation on top soil dump of Yekona I OC Mine will also act as greenbelt between mine and Warora – Madheli Road and Plantation on top soil dump of Yekona II OC Mine will also act greenbelt/ vertical greenery for Yekona Village  Further green belt around the mine will be strengthened in coming years.
(xxiv)	The recommendation of scientific Study for method of Working, Ultimate Pit Slope, Dump Slope & Monitoring of slope stability conducted by Indian Institute of Technology, Kharagpur shall be complied	The recommendation of scientific Study for method of Working, Ultimate Pit Slope, Dump Slope & Monitoring of slope stability is being implemented.  Abstract of Scientific Study enclosed as annexure 23  Dump Slope Monitoring record enclosed as annexure 24
(xxv)	3-teir Tree plantation with wired fencing shall be project proponent for clearly demarcating adjacent forest land.	3-teir Tree plantation with wired fencing for clearly demarcating forest land will be done before the mine working approach near that patch of project.
(xxvi)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	Skill Development training is being organised regularly (such as Tailoring, Beauty Parlour, Computer education,

		<p>Security Guard etc.) for persons living in nearby villages.</p> <p>Work order issued by WCL HQ vide no. WCL/HRD/Skill Dev/2022-23/14 dtd 27.05.2022 for skill development training via CIPET, FDDI, Ashok Leyland driver training institute, ATDC, CII skill development training centres enclosed as annexure 25</p> <p>Details of expenditure statement enclosed as annexure 26</p>									
(xxvii)	<p>Mining shall be carried out only by surface miners for the project (as proposed) and silo loading till railway siding through in-pit conveyor should be installed to avoid road transportation in 3 years.</p>	<p>Mining is being done mainly by Surface Miners wherever topography, gradient is favourable.</p> <p>Remaining coal excavation is being done through Shovel-dumper combination.</p> <p>The work of Railway Siding is started and same will be completed by Dec 2026. Coal Transportation upto railway siding will be within the project boundary and same will be done by Tarpaulin covered trucks.</p>									
(xxviii)	<p>Efforts shall be made for utilizing alternate sources water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.</p>	<p>Mine Seepage water is being utilised for all the activities such as fire-fighting, dust suppression etc</p>									
(xxix)	<p>Active OB Dump should not be kept barren/open and should be covered by Temporary grass to avoid air born of particles.</p>	<p>Grass seeding is done over the benches, embankment, Top Soil dump &amp; OB Dump</p>									
(xxx)	<p>Project proponent to plant 150,000 nos. of native trees with broad leaves along the transportation route in three years to prevent the effect of air pollution. After completion of tree plantation. Number of trees shall be duly endorsed from District Forest Officer.</p>	<p>About 50,000 nos. over an area of 20 Ha is planted on Plain and Top Soil dump along the Coal transportation route.</p> <p>Balance Plantation will be taken up with 1-2 years.</p> <p>Tree Plantation work is being undertaken by Madhya Pradesh Rajya Van Vikas Nigam Ltd and report of plantation is jointly being signed by officials of WCL and Forest Deptt.</p> <table border="1" data-bbox="1005 1881 1524 1993"> <thead> <tr> <th>FY</th> <th>Nos.</th> <th>Area Ha)</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>25,000 Nos.</td> <td>10 Ha</td> </tr> <tr> <td>2022-23</td> <td>50,000 Nos.</td> <td>20 Ha</td> </tr> </tbody> </table>	FY	Nos.	Area Ha)	2021-22	25,000 Nos.	10 Ha	2022-23	50,000 Nos.	20 Ha
FY	Nos.	Area Ha)									
2021-22	25,000 Nos.	10 Ha									
2022-23	50,000 Nos.	20 Ha									

		2023-24	45,000 Nos.	18 Ha															
		2024-25 (proposed)	30,000 Nos.	12 Ha															
(xxxi)	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore development of rock breakers of suitable capacity in the project to avoid blasting very near to villages. There shall be no damages caused to habitation/structures due to blasting activity.	<p>As per new DGMS regulation, Blasting is to be done as per the scientific study recommendation for Blasting.</p> <p>Scientific study for Blasting was conducted by CMPDIL in October 2020 Abstract of same enclosed as annexure 27</p> <p>Vibration monitoring record enclosed as annexure 28</p>																	
(xxxii)	The project proponent shall complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated the 2 <sup>nd</sup> August 2017 in Writ petition (Civil) No.114 of 2014 in the matter of Common Cause versus Union of India and Ors. State Government shall ensure that the entire compensation levied. If any, for illegal mining paid by the project proponent through their respective Department in strict compliance of judgment of Hon'ble Supreme Court dated the 2 <sup>nd</sup> August 2017 in writ petition (Civil) No. 114 of 2014 in the matter of common Cause versus Union of India and Ors.	<p>There is no case of Illegal Mining in this area. Mining as per valid EC and CTO capacity is being done within the project area. The Coal production from the mine is within the EC and CTO Capacity</p> <table border="1"> <thead> <tr> <th>FY</th> <th>EC Capacity</th> <th>Actual Production</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>2.75 MTY</td> <td>2.417 MT</td> </tr> <tr> <td>2022-23</td> <td>2.75 MTY</td> <td>2.749 MT</td> </tr> <tr> <td>2023-24</td> <td>2.75 MTY</td> <td>2.749 MT</td> </tr> <tr> <td colspan="3" style="text-align: right;">(As on 31.03.2024)</td> </tr> </tbody> </table> <p>Boom Barrier, RFID based Entry-Exit, CCTV and other surveillance monitoring is being ensured at places such as Coal stockyard, Weigh Bridge etc. in the mine.</p> <p>Further, as the mine is an open cast mining there is no possibility of illegal mining within the project area.</p>			FY	EC Capacity	Actual Production	2021-22	2.75 MTY	2.417 MT	2022-23	2.75 MTY	2.749 MT	2023-24	2.75 MTY	2.749 MT	(As on 31.03.2024)		
FY	EC Capacity	Actual Production																	
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2022-23	2.75 MTY	2.749 MT																	
2023-24	2.75 MTY	2.749 MT																	
(As on 31.03.2024)																			
(xxxiii)	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground water table.	<p>CGWA NOC Obtained vide NOC no. CGWA/NOC/MIN/ORIG/2019/6689 dtd 19.11.2019 valid upto 18.11.2021. Renewal application was submitted on 17.11.2021 and Impact Assessment report and modelling report submitted on 30.09.2022. Same was approved vide 67<sup>th</sup> EAC Meeting dated 24.07.2023.</p> <p>Renewal application for the period 19.11.2023 to 18.11.2025 applied via email on dated 18.11.2023</p>																	



		Copy of last CGWA NOC and approved renewal status enclosed as annexure 29 & 30.
(xxxiv)	Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the Project and maintain records accordingly; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smoking, etc. shall be undertaken once in six months and necessary remedial/ preventive measures taken accordingly. The Recommendations of National Institute for ensuring good occupational environment for mine workers shall be implemented; The prevention measure for burns, malaria and provision of anti-snake venom including all other paramedical safeguards may be ensured before initiating the mining activities	<p>Regular and Periodical medical examination (IME and PME) of the workers (Departmental as well as contractual workers) has been undertaken at Majri Area Hospital of WCL. Area Hospital is headed by Chief Medical Officer.</p> <p>There is 1 No. PME in-charge and 1 No. PME co-in-charge with appropriate medical qualifications. There are five assisting Doctors. In addition, there is 1 No. PME Clerk and 2 Nos assisting category workers.</p> <p>Medicines for burns, malaria and provision of anti-snake venom including all other paramedical safeguards are ensured</p>
(xxxv)	Project Proponent shall follow the mitigation measures provided in office memorandum No.Z-11013/57/2014-IA.II (M), dated 29 October, 2014, titled "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".	<p>There is no habitation within the Project area. Further, with reference to the OM dtd 29.10.2014, we have been practicing best mine practices such as providing catch drains, garland drains to arrest runoff from the dumps. Photographs of catch drains, garland drains, Siltation pond enclosed as annexure 31</p> <p>Adequate rain water harvesting measures are also being taken in and around mine area to recharge the groundwater levels. Regular monitoring of ground water level is also being done in core and buffer zone of the mine. Ground water monitoring report for the period Dec 2022 to January 2024 submitted vide letter no. WCL/MA/AGM/ENV/2024/127 dated 14.05.2024 enclosed as annexure 32</p> <p>Illumination and sound level of the mine are being monitored regularly inside mine as well as at nearby habitation. Record of Illumination and sound monitoring in mine enclosed as annexure 33</p> <p>Vibration monitoring is also being done to ascertain the impact of blasting.</p>

		Mobile water tankers are used for dust suppression on haul road and Fixed sprinklers are provided for dust suppression on coal transportation road.
(xxxvi)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/ night hours.	It is ensured that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.  Record of Illumination and sound monitoring in nearby village enclosed as annexure 34
(xxxvii)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, spotted in the study area. Action plan for conservation of flora and fauna shall be implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	Fund of Rs 35 Lakhs allocated for GIB Conservation was deposited to DFO, Chandrapur vide Cheque no. 013366 dated 06.08.2020.  Awareness rally in nearby villages in collaboration with forest deptt is also organised on 11.02.2021  Implementation report given by DFO, Chandrapur vide letter no. कक्ष-3/योजना/चन्द्र/21-22/800 dtd 04.01.22 and कक्ष-3/योजना/GIB/23-24/1679 dtd 11.10.2023
(xxxviii)	Hon'ble Supreme Court in an writ petition (s) Civil No. 114/2014, Common Cause vs Union on India & Ors vide its judgement dated 8 <sup>th</sup> January, 2020 has directed the union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturb due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/Project Proponent". The implementation report of the above said	Grass seeding of embankment, benches is already been done.  Also, grass seeding OB dump will be done once dump become inactive.  Further, to prevent the soil fertility of top soil stacked at dumps, 1,00,000 nos. of trees planted at Top soil dumps. This acts as vertical green barrier between mine and coal transportation road and prevent soil erosion.

	condition shall be sent to the Regional Office of the MoEFCC.	
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Specific condition with respect area being in CPAs

(i)	CTE/CTO for the project shall be obtained from the SPCB as required under the Air(Prevention and control of pollution) Act,1981 and the water (Prevention of control of Pollution ) Act,1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no.Q-16017/38/2018-CPA dated 24october,2019 while issuing the CTE/CTO for the project, for improvement of environment of environmental quality in the area.	CTE granted vide letter no. format 1.0/CAC/UAN no. 0000104421 /CE - 2105001339 dated 31.05.2021  CTO Renewal granted vide letter no. Format1.0/CAC/UAN No. MPCB-CONSENT-0000160739/CR/2307001123 dated 18.07.2023 valid upto 31.03.2025
(ii)	The green belt of at least 5-10 m width shall be developed in more than 40% of the total project area, mainly along the periphery of mine boundary, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	120,000 nos. trees of native species over an area of 48 Ha are planted near Yekona Village since FY 2021-22. Out of this 10,000 nos. over an are of 4 Ha as green belt/ wind barrier/ Peripheral tree plantation is near the Yekona village habitation (planted in FY 2021-22).  The Width of green belt is more than 50 mtrs.  Plantation on top soil dump of Yekona I OC Mine will also act as greenbelt between mine and Warora - Madheli Road and Plantation on top soil dump of Yekona II OC Mine will also act greenbelt/ vertical greenery for Yekona Village  Further green belt around the mine will be strengthened in coming years.
(iii)	In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.	Plantation along Coal transportation road is being done.  Bamboo Plantation as Avenue/ Road side plantation will be taken up in phased manner  Plants distribution to nearby villages (such as Yekona, Marda, Charurkhafi etc) as steps towards collaboration with nearby villages and increasing green cover in nearby village area is also being done

(iv)	Monitoring of compliance of EC condition may be submitted with third party audit every year.	Work for same is awarded to NEERI Nagpur vide award letter no. WCL/HQ/ENV/16-J/73-81 dated 26.10.2021. Inspection and review of EC Compliance was done by NEERI Team in FY 2022-23. Copy of Abstract of report enclosed as annexure 35
(v)	Fund allocation for Corporate Environment Responsibility (CER) which is atleast 2 times as per OM of 1 <sup>st</sup> May,2018 may now be considered as 2 time of fund allocated on commitment made during public consultation process for incorporating in EIA-EMP for deliberation of EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	<p>The provisions of PR are to be fulfilled for the works under CER. Majority of points under public consultation as related to employment. Both direct and in-direct employment is being generated due to the project.</p> <p>Apart from this various activity to be covered under CER are also enclosed. Few such activities such as Medical Camps, Health survey/ check-up, Skill Development training for people in nearby villages, development of roads, Rain Water Harvesting works, Avenue Plantation, providing saplings for plantation in nearby villages are being done under CSR and Environment head</p>
(vi)	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	<p>6 nos. fixed sprinklers are provided at Weigh Bridge (Yekona I OC) and 30 nos. fixed sprinklers provided at Coal stockyard &amp; weigh Bridge (Yekona II OC) to control fugitive emission</p> <p>2 nos. 15 KL Mobile water tankers are deployed on Coal transportation road and haul road</p> <p>5 nos. Fog cannon of 100 mtrs throw with 320 deg rotation are in procurement stage (Supply order issued) out of which 1 no. mist cannon is installed at Coal stockyard</p> <p>Grass seeding over embankment, benches is done</p> <p>10,000 nos. trees of native species over an area of 4 Ha as green belt/ wind barrier between Yekona II OC mine OB Dump and Yekona Village are planted. Also, 65,000nos. of saplings planted on top Soil dumps for utilisation and conservation of soil. Green belt between mine OB dumps and mine</p>

		boundary will further strengthened/ developed
(vii)	Transportation of materials by rail/ conveyor belt, wherever feasible.	Study conducted by GMR for installation of Pipe Conveyor between Yekona Mine and GMR power Plant, but same is not feasible.  Dedicated Railway Siding for evacuation of coal from Amalgamated Yekona OC Mine is under construction. Work of Railway Siding awarded to IPRCL and same is in progress and will be completed by December 2025
(viii)	A detailed water harvesting plan may be submitted by the project proponent	Roof Top Rain Water Harvesting is installed over office building such as Sub Area Manager Office, Manager Office etc.  Photographs of rain water harvesting structures enclosed as annexure 15  Rain water harvesting pond of 35 mtr x 30 mtr is dug near Yekona Village.  Pond deepening for nearby villages to increase water recharge and water holding capacity of ponds will done if required in nearby villages
(ix)	In case, domestic waste water generation is more than 10 KLD, the industry may install STP.	The domestic water requirement of the mine is very less. Only 5 KLD overhead tank is provided for canteen and washroom requirement of the office.  STP for mine premises is provided for canteen and other domestic waste.
(x)	Monitoring of compliance of EC conditions may be submitted with third party audit every year	Work for the monitoring of EC conditions is awarded to NEERI Nagpur vide award letter no. WCL/HQ/ENV/16-J/73-81 dated 26.10.2021.

4.1 The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:

(A) Statutory Compliance

4(i)	The project proponent shall obtain forest clearance under the provisions of forest (Conservation) Act,1986, in case	There is no forest land involved in the project area/ EC Boundary
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	of the diversion of forest land for non-forest purpose involved in the project.	
(ii)	The project proponent shall obtain clearance from the National Board Wildlife, if applicable.	Not Applicable
(iii)	The project proponent shall prepare a site-specific conservation plan/ wildlife management plan and approved by the chief wildlife warden. The recommendation of the approved site-specific conservation plan/wildlife management plan shall be implemented in consultation with the state forest department. The implementation report shall be furnished along with the six monthly compliance report (in case of the presence of schedule-1 species in the study area).	Conservation plan for Schedule-I species i.e. Great Indian Bustard (GIB) has been prepared and approved by PCCF (Wildlife), Nagpur.  Fund of Rs 35 lakhs allocated was also deposited to DFO, Chandrapur and same is utilised by Forest Department to implement the activities as per the conservation plan.
(iv)	The project proponent shall obtain consent to establish/operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/Committee.	CTE granted vide letter no. format 1.0/CAC/UAN no. 0000104421 /CE - 2105001339 dated 31.05.2021  CTO Renewal granted vide letter no. Format 1.0/CAC/UAN No. MPCB-CONSENT-0000160739/CR/2307001123 dated 18.07.2023 valid upto 31.03.2025
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	CGWA NOC Obtained vide NOC no. CGWA/NOC/MIN/ORIG/2019/6689 dtd 19.11.2019 valid upto 18.11.2021. Renewal application was submitted on 17.11.2021 and Impact Assessment report and modelling report submitted on 30.09.2022. Same was approved vide 67 <sup>th</sup> EAC Meeting dated 24.07.2023  2 <sup>nd</sup> Renewal application for the period 19.11.2023 to 18.11.2025 was also submitted via email dated 18.11.2023 to CGWB/CGWA
(vi)	Solid/hazardous waste generated in the mines needs to be addressed as per solid waste management rules, 2016/hazardous & other waste management rules, 2016.	Hazardous waste generated in the mines is addressed as per hazardous & other waste management rules, 2016  Hazardous Waste is being disposed off via Authorised Recycler or CHWTSDF Butibori.

		<p>Details of disposal during the period 2023-24 is being filed in Form 4 as Annual Hazardous Waste return 23-24 to MPCB vide UAN No. MPCB-HW_ANNUAL_RETURN-0000043541 on dated 13.05.2024</p> <p>Annual Hazardous Waste return 23-24 enclosed as annexure 36</p>
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(B) Air Quality Monitoring And Preservation

(i)	<p>Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well 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 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>CAAQMS (1 no.) along with MET station is installed in mine core zone and location of same is finalised in consultation with MPCB.</p> <p>Photographs of CAAQMS station enclosed as annexure 37</p> <p>Apart from this 4 nos. AAQ monitoring stations are also set up for AAQ monitoring on fortnightly basis.</p> <p>Heavy Metal monitoring is being monitored on half yearly basis through CMPDIL (NABL accredited lab). Report of QE Dec 2023 of heavy metal monitoring enclosed as annexure 38</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<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to the CPCB/SPCB.</p>	<p>Monitoring of Ambient Air Quality is being carried out as per GSR 742 (E) dated 25.09.2000.</p> <p>Data on ambient air quality is being monitored on fortnightly basis and heavy metals such as Hg, As, Ni, Cd, Cr is being monitored on half yearly basis and same is being reported to the Ministry/ Regional Office and to the MPCB along with six monthly EC Compliance report</p> <p>The ambient air quality monitoring stations are established in consultation with officials of Maharashtra Pollution Control Board, Chandrapur.</p> <p>Monitoring reports for the period from October 2023 to March 2024 is enclosed as annexure 39</p> <p>It can be seen that all the parameters are within the prescribed standards.</p>

		(PM10) Values of $\mu\text{g}/\text{m}^3$				
Date	PIT Office	Panzurni Village	Ashli Village	Dandgaon Village		
OCT 23 (1 <sup>st</sup> FN)	191	65	60	64		
OCT 23 (2 <sup>nd</sup> FN)	178	81	78	69		
NOV 23 (1 <sup>st</sup> FN)	210	70	66	70		
NOV 23 (2 <sup>nd</sup> FN)	200	100	97	78		
DEC 23 (1 <sup>st</sup> FN)	230	77	72	76		
DEC 23 (2 <sup>nd</sup> FN)	220	99	95	77		
JAN 23 (1 <sup>st</sup> FN)	240	80	75	78		
JAN 23 (2 <sup>nd</sup> FN)	230	110	106	89		
FEB 23 (1 <sup>st</sup> FN)	242	84	76	80		
FEB 23 (2 <sup>nd</sup> FN)	236	106	110	106		
MAR 23 (1 <sup>st</sup> FN)	246	88	80	86		
MAR 23 (2 <sup>nd</sup> FN)	240	99	99	97		
<b>Std</b>	<b>250</b>	<b>100</b>	<b>100</b>	<b>100</b>		
		(PM2.5) Values of $\mu\text{g}/\text{m}^3$				
Date	PIT Office	Panzurni Village	Ashli Village	Dandgaon Village		
OCT 23 (1 <sup>st</sup> FN)	60	34	36	42		
OCT 23 (2 <sup>nd</sup> FN)	58	53	55	39		
NOV 23 (1 <sup>st</sup> FN)	56	38	40	60		
NOV 23 (2 <sup>nd</sup> FN)	55	58	58	50		
DEC 23 (1 <sup>st</sup> FN)	72	40	44	60		
DEC 23 (2 <sup>nd</sup> FN)	60	64	60	48		
JAN 23 (1 <sup>st</sup> FN)	75	44	46	61		
JAN 23 (2 <sup>nd</sup> FN)	64	63	62	57		
FEB 23 (1 <sup>st</sup> FN)	79	48	50	60		
FEB 23 (2 <sup>nd</sup> FN)	67	60	58	48		
MAR 23 (1 <sup>st</sup> FN)	82	53	52	56		
MAR 23 (2 <sup>nd</sup> FN)	72	58	59	55		
<b>Std</b>	<b>60</b>	<b>60</b>	<b>60</b>	<b>60</b>		
(iii)	<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 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>	<p>Work of Railway Siding awarded to M/s IPRCL. Work of same is started and will be completed by Dec 2026.</p> <p>6 nos. fixed sprinklers are provided at Weigh Bridge (Yekona I OC) and 30 nos. fixed sprinklers installed at Coal stockyard &amp; Weigh Bridge (Yekona II OC) to control fugitive emission</p> <p>2 nos. 15 KL Mobile water tankers are deployed on Coal transportation road and haul road</p> <p>5 nos. Fog cannon of 100 mtrs throw with 320 deg rotation are installed at Coal stockyard, Weigh Bridge, Mobile Crusher, Coal transportation Road etc.</p> <p>Mobile crusher is provided with Mist spray arrangement</p>				



(iv)	The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct the by-pass road, it should be constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	The Transportation of coal is being done by Power Houses and other consumers by themselves.
(v)	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.	All the light vehicles namely jeep & trucks etc. having valid PUC certificate for vehicular emission through RTO approved agency are used.
(vi)	Coal stock pile/ crusher/ feeder and breaker material transfer points shall invariable be provided with dust suppression system. Belt-conveyor 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>6 nos. fixed sprinklers are provided at Weigh Bridge (Yekona I OC) and 30 nos. fixed sprinklers installed at Coal stockyard &amp; Weigh Bridge (Yekona II OC) to control fugitive emission</p> <p>2 nos. 15 KL Mobile water tankers are deployed on Coal transportation road and haul road</p> <p>5 nos. Mist cannon of 100 mtrs throw with 320 deg rotation are in procurement stage (Supply order issued) out of which 1 no. installed at Coal stockyard</p> <p>Mobile crusher is provided with Mist spray arrangement</p> <p>Drills are wet operated</p>
(vii)	Coal handling plant shall be operated with effective control, measures w.r. t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.	<p>Most of the Coal extraction is through Surface Miner technology which helps in eliminating blasting and crushing of Coal.</p> <p>Remaining coal extraction which is being done through Shovel-dumper combination</p> <p>Fog Cannon is installed at Mobile crusher to avoid fugitive dust during loading process.</p>

(C) Water Quality Monitoring And Preservation

(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the	Mine Water discharge, Workshop ETP effluent is being monitored vide GSR 742 € dated 25 <sup>th</sup> September, 2000.
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water Act, 1974 Coal Industry Standards vide GSR 742 € dated 25<sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board.

Copy of Mine Discharge and Workshop Effluent Water quality Monitoring Report for the period October 2023 to March 2024 enclosed as annexure 39

**MINE WATER DISCHARGE (Yekona I)**

Date	pH	COD	TSS	O&G
OCT23 (1 <sup>st</sup> FN)	7.65	40	44	BDL
OCT23(2 <sup>nd</sup> FN)	7.86	44	56	BDL
NOV23(1 <sup>st</sup> FN)	8.31	48	38	BDL
NOV23(2 <sup>nd</sup> FN)	7.94	52	40	BDL
DEC 23 (1 <sup>st</sup> FN)	7.72	40	52	BDL
DEC23(2 <sup>nd</sup> FN)	NA	NA	NA	BDL
JAN 23 (1 <sup>st</sup> FN)	8.26	56	38	BDL
JAN23(2 <sup>nd</sup> FN)	8.20	64	40	BDL
FEB 23 (1 <sup>st</sup> FN)	7.76	48	40	BDL
FEB 23 (2 <sup>nd</sup> FN)	7.86	60	46	BDL
MAR23 (1 <sup>st</sup> FN)	8.20	28	46	BDL
MAR23(2 <sup>nd</sup> FN)	7.76	20	50	BDL

**MINE WATER DISCHARGE (Yekona II)**

Date	pH	COD	TSS	O&G
OCT23 (1 <sup>st</sup> FN)	7.62	52	48	BDL
OCT23(2 <sup>nd</sup> FN)	7.78	64	42	BDL
NOV23 (1 <sup>st</sup> FN)	8.00	56	46	BDL
NOV23(2 <sup>nd</sup> FN)	7.90	60	38	BDL
DEC 23 (1 <sup>st</sup> FN)	7.80	54	44	BDL
DEC23(2 <sup>nd</sup> FN)	NA	NA	NA	BDL
JAN 23 (1 <sup>st</sup> FN)	8.00	48	52	BDL
JAN23(2 <sup>nd</sup> FN)	7.78	56	36	BDL
FEB 23 (1 <sup>st</sup> FN)	7.60	36	46	BDL
FEB 23 (2 <sup>nd</sup> FN)	7.93	48	40	BDL
MAR23 (1 <sup>st</sup> FN)	8.32	32	40	BDL
MAR23(2 <sup>nd</sup> FN)	7.98	40	36	BDL

(ii) The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27<sup>th</sup> May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.

Complied

All the monitoring reports are being uploaded on westerncoal website under SECTION -> DEPARTMENT -> ENVIRONMENT -> ENVIRONMENT QUALITY REPORT.

<http://www.westerncoal.in/index1.php/StaticPage/153>

(iii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-

Regular monitoring of ground water level and quality is being carried out in and around the mine lease.

The monitoring is carried out four times in a year pre- monsoon (April-May), monsoon (August), post-monsoon

	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 MOEFCC/ RO.	(November) and winter (January) and the data thus collected is being sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board  Report of the monitoring (Dec 2022 to January 2024 enclosed)
(iv)	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.	Monitoring of water quality upstream and downstream of water bodies is being carried out half yearly and report of same is also submitted to MPCB & MoEF on regular basis. Copy of latest Surface Water Quality report QE Dec 2023 & QE March 2024 enclosed
(v)	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.	Mine water is being used to fulfil most of the requirements in mining operations such as fire fighting, dust suppression etc. However, wherever the mine water cannot be utilised, there the water from ground water bores is being used.  Roof Top Rain Water Harvesting is installed over office building such as Sub Area Manager Office, Manager Office etc.  Rain water harvesting pond of 50 mtr x 30 mtr is also constructed near Yekona Village  Pond deepening, if required for nearby villages to increase water recharge and water holding capacity of ponds will be done. It helps in augmenting ground water resources.
(vi)	Catch and/ or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal helps & 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 sit into the drains. The drains/ ponds so constructed shall by regularly desilted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period	Garland drains of dimension (Length: 4650 mtr, Avg. width: 2.0 mtr, Avg. Depth: 2.00 mtr) is provided around the mine.  Catch drain of dimension (Length: 3300 mtr, Avg. width: 2.0 mtr, Avg. Depth: 2.00 mtr) provided around OB dumps.  Catch drain of dimension (Length: 6000 mtr, Avg. width: 1.0 mtr, Avg. Depth: 1.00 mtr) provided along Coal transportation road

	<p>to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any, at the toe of the OB dumps within the mine to check run-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/ habitation/ water bodies.</p>	<p>Desilting of catch drains and garland drains is done every year before onset of monsoon departmentally.</p> <p>The catch drains provided all around the OB Dump acts as an arrestor against any flow of silt and sediments into the nearby fields/ nalla. As such specifically, at present there is no requirement of retaining wall at the toe of the dump. Moreover, grass seeding has been placed over the slopes which further protects the flow of silts and sediments.</p>
(vii)	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirements of nearby village(s) after due treatment conforming to the specific requirements(standards).</p>	<p>Roof Top Rain Water Harvesting is installed over office building such as Sub Area Manager Office, Manager Office etc.</p> <p>Rain water harvesting pond of 50 mtr x 30 mtr is constructed near Yekona Village</p> <p>Pond deepening, if required for nearby villages to increase water recharge and water holding capacity of ponds will be done.</p> <p>It helps in augmenting ground water resources.</p> <p>Due to availability of waterbodies such as Wardha River in West-South West, Dahiwal nalla in North and irrigation canal towards East direction, there is no scarcity of water in the vicinity.</p> <p>If any water requirement issue at nearby village come to the notice, project authority will take all necessary measures to fulfil the requirement</p>
(viii)	<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 standards prescribed under water Act, 1974 and Environment (Protection) Act, 1986 and the rules made there under, and as amended from time to time. Adequate ETP/STP needs to be provided.</p>	<p>ETP of 100 KLD capacity with Oil Skimmer is constructed for treating the effluent generated from washing of HEMM</p> <p>At present most of the workers of this mine are residing at Warora/ Bhadrawati Town.</p> <p>There is no new/ dedicated colony constructed for this mine. STP of suitable capacity will be constructed along with the construction of new quarters for the workers of Amalg. Yekona OC mine.</p>

(ix)	The water pumped out from the mine, after siltation, shall be utilised for industrial purpose viz. watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Pumped out mine water is used for firefighting, dust suppression etc. After treatment, it is being released in local nalla from where villagers are further utilise it for their farming needs.
(x)	The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of rive/ rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/Gol 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 or any other authority as prescribed by the law.	A detailed report on riverine ecosystem has been prepared. Copy of same submitted along with Six Monthly EC Compliance report of March 2022 (Copy of Riverine ecosystem conservation plan enclosed as annexure 40)  The Mining activity is strictly carried out as per the approved Mining Plan and with due permission of DGMS. The same will continue to be operated as per the above.
(xi)	The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance od 5 km. A rivarine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/water resources department in the state government.	Rivarine/ riparian ecosystem conservation and management plan is prepared (Copy of same is already submitted to your good office along with EC Compliance report of March 2022) and implemented in consultation with the irrigation/water resources department in the state government.

(D) Noise And Vibration Monitoring And Prevention

(ii)	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Deployment of Surface Miner help in avoiding Blasting in Coal.  Adequate measures namely proper maintenance of HEMM and controlled blasting is being done so as to control noise levels below 85 dB(A). The workers engaged in noisy environment are provided with ear plugs/muffs.  Noise Monitoring stations are established for monitoring the noise level data and regularly monitored. Noise Monitoring report for the period April to September 2023 enclosed as annexure 39		
		Noise levels in dB (A)		
		<table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Date</td> <td style="width: 50%;">STN (PIT OFFICE)</td> </tr> </table>	Date	STN (PIT OFFICE)
Date	STN (PIT OFFICE)			

		Day	Night	
		OCT 23 (1 <sup>st</sup> FN)	55.6	52.1
		OCT 23 (2 <sup>nd</sup> FN)	56.7	55.9
		NOV 23 (1 <sup>st</sup> FN)	66.9	65.7
		NOV 23 (2 <sup>nd</sup> FN)	59.8	58.5
		DEC 23 (1 <sup>st</sup> FN)	57.8	56.4
		DEC 23 (2 <sup>nd</sup> FN)	57.9	56.5
		JAN 23 (1 <sup>st</sup> FN)	54.50	52.30
		JAN 23 (2 <sup>nd</sup> FN)	55.40	53.50
		FEB 23 (1 <sup>st</sup> FN)	56.60	54.50
		FEB 23 (2 <sup>nd</sup> FN)	54.70	52.30
		MAR 23 (1 <sup>st</sup> FN)	54.60	52.10
		MAR 23 (2 <sup>nd</sup> FN)	54.70	52.30
		<b>STD</b>	<b>75.00</b>	<b>70.00</b>
(ii)	Controlled blasting techniques shall be practised in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.	Controlled blasting is being done as per DGMS guidelines with cord relay and shock tubes.  Blasting is being done as per the recommendation of Scientific study conducted by CMPDIL in Oct 2020		
(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workman at vulnerable points in the mine premises, and report in this regard shall be submitted to the ministry/ RO on six-monthly basis.	Noise level survey shall be carried out as per the DGMS guidelines to assess noise exposure of the workman at vulnerable points in the mine premises.		

(E) Mining Plan

(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 is carried out as per the provisions of the Mines Act 1952
(ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	All the activities are being done as per Approved Mining Plan. DGMS circulars are being strictly followed.  Mine Closure Plan will be implemented as the mine will reach in final stage of operation.
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	There is no forest land involved in the project area/ EC Boundary
(iv)	Efforts should be made to reduce energy and consumption by	Steps for installation of Renewable energy in mine premises is being taken.

	conservation, efficiency improvements and use of renewable energy.	Renewable energy such as roof top solar power installation at the AGM office and building of Kendriya Vidhyalay is also implemented
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(F) Land Reclamation

(i)	Digital survey of entire lease hold area/ core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment, Forest and Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	Land use pattern of the mine is studied every year through Satellite imagery. Monitoring of same has been done by CMPDIL in 2023. Report of same is uploaded on WCL Website  ( <a href="http://www.westerncoal.in/?q=node/270">http://www.westerncoal.in/?q=node/270</a> ).
(ii)	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/ forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for preparation of Mine Closure Plan issued by the Ministry of coal dated 27 <sup>th</sup> August,2009 and subsequent amendments.	Adequate care will be taken to sustain aquatic life as the void depth will be more than 40 mtrs as per mine closure plan once the mine is closed.  Backfilled area will be reclaimed by plantation or other useful purposes.  Mine closure plan/ guidelines will be followed.
(iii)	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-à-vis the post mining land	Total 21,17,550 nos of saplings will be planted in 847.02 ha till mine closure.  As on date, 120,000 nos. of trees planted over an area of 48 Ha in mine  <b><u>Yearwise Actual Plantation as on Date</u></b>  2021-22 = 10,000 Nos. over an area of 4 Ha (PLAIN) & 15,000 Nos. over an area of 6 Ha (TOP SOIL DUMP)

	use pattern shall be submitted to the MOEFCC/RO.	2022-23 = 50,000 Nos. over an area of 20 Ha (TOP SOIL DUMP)  2023-24 = 35,000 Nos. over an area of 14 Ha (TOP SOIL DUMP) and 10,000 Nos. over an area of 4 Ha on Plain Land/ Avenue Plantation																																																
(iv)	Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3 <sup>rd</sup> November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be submitted to Regional Office of MoEFCC, CPCB and SPCB.	There is no provision of Fly Ash backfilling or using fly ash for mixing in external dump in approved mining plan  As per the CIL guidelines, Fly ash for backfilling will be utilised at the end of mine life, if required when the mine gets abandoned.																																																
(v)	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site (s) only and shall not be kept unutilized. The topsoil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with 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.	17.133 Mm <sup>3</sup> Top soil has been excavated till 31.03.2024 and is being stored in the earmarked site  <table border="1"> <thead> <tr> <th>Dump</th> <th>Area</th> <th>Height</th> <th>Bench</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;"><b>YEKONA I OC</b></td> </tr> <tr> <td>BC Dump1</td> <td>9.50 Ha</td> <td>29 m</td> <td>3</td> </tr> <tr> <td>BC Dump2</td> <td>24.55 Ha</td> <td>12 m</td> <td>2</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>YEKONA II OC</b></td> </tr> <tr> <td>BC Dump1</td> <td>14.80 Ha</td> <td>34 m</td> <td>3</td> </tr> <tr> <td>BC Dump2</td> <td>40.00 Ha</td> <td>32 m</td> <td>3</td> </tr> </tbody> </table> Top soil dump of Yekona I OC mine and top soil dump near Yekona Village of Yekona II OC Mine are covered with tree plantation being near to the village site and to improve the stability, hence, top soil stored at these dumps are being considered as utilised. Rest will be utilized as per the plantation programme.  41.636 Mm <sup>3</sup> OB (excl. top soil) has been excavated till 31.03.2024 and is being stacked at the earmarked dump site only  <table border="1"> <thead> <tr> <th>Dump</th> <th>Area</th> <th>Height</th> <th>Bench</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;"><b>YEKONA I OC</b></td> </tr> <tr> <td>Hard OB Dump</td> <td>19.50 Ha</td> <td>28 m</td> <td>3</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>YEKONA II OC</b></td> </tr> <tr> <td>Hard OB Dump</td> <td>115.50 Ha</td> <td>75 m</td> <td>5</td> </tr> </tbody> </table>	Dump	Area	Height	Bench	<b>YEKONA I OC</b>				BC Dump1	9.50 Ha	29 m	3	BC Dump2	24.55 Ha	12 m	2	<b>YEKONA II OC</b>				BC Dump1	14.80 Ha	34 m	3	BC Dump2	40.00 Ha	32 m	3	Dump	Area	Height	Bench	<b>YEKONA I OC</b>				Hard OB Dump	19.50 Ha	28 m	3	<b>YEKONA II OC</b>				Hard OB Dump	115.50 Ha	75 m	5
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		Regarding Monitoring and management of rehabilitated areas, it is submitted that, the same in respect of external OB dump is yet to start as the dump is active. But after vegetation / plantation, the monitoring and management will be continued till it becomes self sustaining. Compliance against this condition is a part of Six monthly EC Compliance report which is submitted to RO, MoEF&CC regularly and will continue to be submitted.
(vi)	The project proponent shall make necessary alternative arrangements, if grazing land is involved on core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implemented the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	Not Applicable, as no separate land is acquired for grazing land. However, designated patch of land, nearby the village and along the mine boundary has been identified and left out for livestock grazing.

(G) Green Belt

(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	<p>Conservation plan for Schedule-I species i.e. Great Indian Bustard (GIB) has been prepared and approved by PCCF (Wildlife), Nagpur.</p> <p>Fund of Rs 35 lakhs allocated was also deposited to DFO, Chandrapur and same is being spent to implement the activities as per the conservation plan.</p> <p>Implementation report given by DFO, Chandrapur vide letter no. कक्ष-३/योजना/चन्द्र/21-२२/800 dtd 04.01.22 &amp; कक्ष-३/योजना/GIB/23-24/1679 dtd 11.10.2023</p>
(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/ coal transportation roads.	<p>120,000 nos. trees of native species over an area of 48 Ha are planted near Yekona Village since FY 2021-22. Out of this 10,000 nos. over an area of 4 Ha as green belt/ wind barrier/ Peripheral tree plantation is near the Yekona village habitation (planted in FY 2021-22). The width of green belt is minimum 50 mtrs</p> <p>Plantation on top soil dump of Yekona I OC Mine will also act as greenbelt between mine and Warora - Madheli Road and Plantation on top soil dump</p>

		<p>of Yekona II OC Mine will also act greenbelt/ vertical greenery for Yekona Village</p> <p>Further green belt around the mine will be strengthened in coming years.</p>
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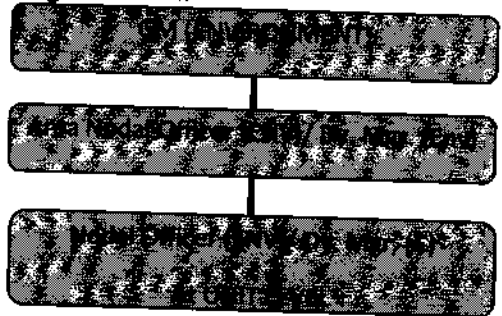
(H) Public Hearing and Human Health Issues

(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 this ministry & it's RO on six-monthly basis.	Adequate illumination is being done in all mine locations.
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1995 and DGMS circulars. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment time to time.	<p>Complied</p> <p>Regular and Periodical medical examination (IME and PME) of the workers (Departmental as well as contractual workers) has been undertaken at Majri Area Hospital of WCL. Area Hospital is headed by Chief Medical Officer.</p> <p>Health check-up to detect for occupational diseases and hearing impairment is also being done.</p>
(iii)	Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	Personnel (including outsourced employees) working in mine is provided with protective respiratory devices and adequate training and information on safety and health aspects is also provided at GVTC Majri on inducting in mining activity as well as on regular basis till they work in mines of WCL Majri Area.
(iv)	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 oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	<p>Majority of points under public consultation are related to employment. Both direct and in-direct employment is being generated due to the project.</p> <p>Borewell is provided in Charurkhati village and handpumps are provided in Marda and Yekona village. Apart from this, other works such as Concrete/Black topped roads in Yekona Village, Drain and sanitation work in nearby illages are also taken up.</p>

		<p>Activities such as Medical Camps, Health survey/ check-up, Skill Development training for people in nearby villages, development of roads, Rain Water Harvesting works, Avenue Plantation, providing saplings for plantation in nearby villages are being done under CSR and Environment Head</p> <p>Land oustees are compensated as per the norms laid down in the CIL R&amp;R policy</p>
(v)	<p>The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29<sup>th</sup> October, 2014 titled '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.</p>	<p>There is no habitation within the Project area/ near project area as on date. Further, with reference to the OM dtd 29.10.2014, we have been practicing best mine practices such as providing catch drains, garland drains to arrest runoff from the dumps. Adequate rain water harvesting measures are also being taken in and around mine area to recharge the groundwater levels. Regular monitoring of ground water level is also being done in core and buffer zone of the mine.</p> <p>Illumination and sound level of the mine are being monitored inside mine as well as at nearby habitation.</p> <p>Designated patch of land nearby village and along the mine boundary is left out for livestock grazing.</p> <p>Vibration monitoring is also being done to ascertain the impact of blasting.</p> <p>Mobile water tankers are used for dust suppression on haul road and Fixed sprinklers are provided for dust suppression on coal transportation road.</p>

(i) Corporate Environment Responsibility

(i)	<p>The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1<sup>st</sup> May 2018, as</p>	<p>Borewell is provided in Charurkhati village and handpumps are provided in Marda and Yekona village. Apart from this, other works such as Concrete/ Black topped roads in Yekona Village,</p>
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	<p>applicable, regarding Corporate Environment Responsibility.</p>	<p>Drain and sanitation work in nearby villages are also taken up.</p> <p>Activities such as Medical Camps, Health survey/ check-up, Skill Development training for people in nearby villages, development of roads, Rain Water Harvesting works, Avenue Plantation, providing saplings for plantation in nearby villages are being done under CSR and Environment Head</p> <p>However, as the project is running/ already operational, works taken up in nearby village are accounted in CSR Head.</p>
(ii)	<p>The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental 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/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or shareholders/stake holders.</p>	<p>Coal India Limited has its well laid down environmental policy duly approve by the CIL Board.</p> <p>The Environment Policy prescribes for standard operating process/ procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.</p> <p>The company has a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.</p>
(iii)	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>	<p>Environment Cell exists at HQ, Area, &amp; project level. GM (Environment) directly reports to the head of the Organization.</p>  <pre> graph TD     A[Environment Cell] --&gt; B[GM (Environment)]     B --&gt; C[Head of the Organization]   </pre>
(iv)	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental</p>	<p>The year wise funds earmarked for environmental protection measures are kept in separate account and not diverted for any other purpose.</p>

	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 Report Compliance Report.	
(v)	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Environmental Audit Cell has been formulated to ensure implementation of all the EC Conditions vide letter no. WCL/HQ/ENV/20-B & 25-I/71-81 dated 18.02.2017.

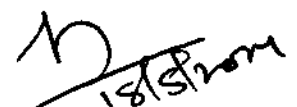
(J) Miscellaneous

(i)	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Advertisement given in following 2 Newspapers :- 1) Chandrapur Samachar (Marathi) dated 06.01.2021 2) Mahavidharbha (Hindi) dated 06.01.2021
(ii)	The copies of the environmental clearance shall be submitted by the project proponent to the heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copies of the environmental clearance is submitted to the heads of local bodies, and Municipal Bodies and relevant offices of the Government between 02.01.21 to 05.01.21 and submission to Panchayat offices on 19.02.2021 due to panchayat election in January 2021.
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their website and update the same on half-yearly basis.	Compliance of the stipulated environment clearance conditions, including result of monitored data are uploaded on WCL website regularly ( <a href="http://www.westerncoal.in/?q=node/270">http://www.westerncoal.in/?q=node/270</a> ).
(iv)	The project proponent shall monitor the criteria, pollutants level namely; PM10, SO2, NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Pollutants level namely; PM10, PM2.5, CO, SO2, NOx are being monitored at CAAQMS and same is displayed at LED Board installed at CAAQMS Station.  Moreover, Ambient AAQ monitoring in core and buffer zone. Data of same is displayed on manual handwritten board installed at Manager Office. CAAQMS data also displayed by LED Display Board at CAAQMS Entrance also

(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of environment, Forest and Climate Change at environment clearance portal.	Six-monthly EC Compliance reports are uploaded on MoEF Website/ portal regularly. Same can also be accessed from Company's webpage showing Environmental compliance
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-IA. II (M) dated 29 <sup>th</sup> October, 2014, titled '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'.	<p>There is no habitation within the Project area/ near project area working as on date. Further, with reference to the OM dtd 29.10.2014, we have been practicing best mine practices such as providing catch drains, garland drains to arrest runoff from the dumps. Adequate rain water harvesting measures are also being taken in and around mine area to recharge the groundwater levels. Regular monitoring of ground water level is also being done in core and buffer zone of the mine.</p> <p>Illumination and sound level of the mine are being monitored inside mine as well as at nearby habitation.</p> <p>Designated patch of land near village and along the mine boundary is left out for livestock grazing.</p> <p>Vibration monitoring is also being done to ascertain the impact of blasting.</p> <p>Mobile water tankers are used for dust suppression on haul road and Fixed sprinklers are provided for dust suppression on coal transportation road.</p>
(vii)	The project proponent shall submit the environmental statement for each financial year in Form-v to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	<p>Environment Statement (Amalg. Yekona I&amp;II OC mine) for 2022-23 has been submitted to MPCB vide UAN No. 56705 on dated 03.09.2023 as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently.</p> <p>Same is also been uploaded on the Company's website along with the status of compliance of EC conditions</p>
(viii)	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Information regarding commencement of mining operations of Amalg. Yekona I & II OC Mine is given to the Regional Office of the MOEF&CC vide e.mail dated 27.11.2021
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted and is being complied

(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted and is being complied
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	Noted
(xii)	Conceding factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	Noted
(xiii)	The ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	Noted
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
(xv)	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/ monitoring reports.	Noted
(xvi)	The above conditions shall 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, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the public liability insurance Act, 1991 along with their amendments and rules and any other orders passed by the Hon'ble supreme court of india/ High courts and any other court of law relating to the subject matter.	Noted
5.	The proponent shall abide by all the commitment 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.	Noted

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. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted and complied
7.	Any appeal against this environmental clearance shall lie with the National Green Tribunal. If preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act,2010.	Noted
8.	The coal company/ project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time. In terms of the orders dated 2 <sup>nd</sup> August, 2017 of Hon'ble Supreme Court in WP(Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.	There is no illegal mining in the jurisdiction of WCL Majri Area. The production is within the permitted EC & CTO Capacity
9.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	There is no illegal mining in the jurisdiction of WCL Majri Area. The production is within the permitted EC & CTO Capacity
10.	This environmental compliance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other statutory requirements.	Noted

  
 Sub Area Manager  
 For/- Amalg. Yekona I & II OC Mine  
 Amalg. Yekona Sub Area