



**वेस्टर्न कोलफ़िल्ड्स लिमिटेड Western Coalfields Limited**



(मिनीरत्न कंपनी) (A Miniratna Company)

(कोल इंडिया लि. की अनुषंगी कंपनी) (A Subsidiary of Coal India Limited)

**ITUW TSA**  
NEW DELHI 2024

CIN-U10100MH1975GOI018626

**क्षेत्रीय महाप्रबंधक कार्यालय, चंद्रपुर क्षेत्र / Office of Area General Manager, Chandrapur Area**

पता: वेकोलि, चंद्रपुर क्षेत्र, पो. बाबुपेठ जि. चंद्रपुर, / Address: WCL, Chandrapur Area, Po- Babupeth,

महाराष्ट्र, पिन: 442403

Dist: Chandrapur, MS, Pin-442403

Email: anoenv.cha@coalindia.in

FAX:- 07172-255287

संदर्भ संख्या: वेकोलि/चक्षे/क्षेमप्र/पर्यावरण/2024-25/ 353

दिनांक: 22.11.2024

प्रति,

अतिरिक्त प्रधान मुख्य वन संरक्षक,

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,

क्षेत्रीय कार्यालय (WCZ),

भूतल, पूर्वी विंग, नया सचिवालय भवन,

सिविल लाइन्स, नागपुर- 440001

विषय: Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for **Bhatadi Opencast Mine** of Chandrapur Area, WCL (As on 01.10.2024)

संदर्भ: EC letter No. J-11015/151/2014-IA-II(M) dtd: 13.03.2020

महोदय,

Please find enclosed herewith, Six Monthly Report against Compliance of Conditions of Environmental Clearance letter for **Bhatadi Opencast Mine** of Chandrapur Area, WCL (As on 01.10.2024)

This for your kind information & necessary action please.

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(प्रशांत अश्विनकुमार ठाकर)

क्षेत्रीय केंद्रस्थ अधिकारी (पर्यावरण)

वेकोलि, चंद्रपुर क्षेत्र

संलग्न: यथोपरी

प्रतिलिपी:

1. प्रादेशिक अधिकारी, महाराष्ट्र प्रदूषण नियंत्रण बोर्ड, उद्योग भवन, प्रथम तल, रेलवे स्टेशन रोड चंद्रपुर 442401
2. क्षेत्रीय महाप्रबंधक, वेकोलि, चंद्रपुर क्षेत्र
3. महाप्रबंधक (पर्यावरण), वेकोलि-मुख्यालय, नागपुर
4. ऑफिस कॉपी

**E.M.P. COMPLIANCE REPORT**

**AS ON 01.10.2024**

**BHATADI OPENCAST EXPANSION PROJECT**



**WESTERN COALFIELDS LIMITED**  
**CHANDRAPUR AREA**




**WESTERN COALFIELDS LIMITED**  
**OFFICE OF THE SUB AREA MANAGER**  
**BHATADI SUB AREA**  
**CHANDRAPUR AREA**

Ref. No. WCL/CHA/BSA/BOCM/CIVIL/ 1849

Date :- 19/11/2024

For preparation of six monthly report As On 01.10.2024 data collected from following department of Bhatadi OC Mine of Bhatadi Sub Area

  
19/11/2024  
Survey Officer  
Bhatadi OCM

  
18/11/24  
SAE (Civil)  
Bhatadi OCM

  
19/11/24  
Mine Manager  
Bhatadi OCM

  
19/11/24  
Sub Area Manager  
Bhatadi Sub Area

## PRESENT STATUS OF PROJECT WORK

### PART - I

Name of the Project	<b>BHATADI OPENCAST EXPANSION MINE</b>
Location	At-P.O.Bhatadi , Tehsil- Chandrapur, District-Chandrapur, Maharashtra State.
Address for correspondence	Sub Area Manager, Bhatadi Opencast Sub Area, PO :Bhatadi, Distt.: Chandrapur (M.S.) PIN-442404.
MOEF's Clearance No. & Date	J-11015/151/2014-IA-II(M) dtd: 13.03.2020
Period of Status Report	01.04.2024 to 30.09.2024
Date of Submission of Last Report	08.06.2024
Date of Commencement of Project work	1995

### STATUS OF LAND ACQUISITION

TYPE OF LAND	REQUIRED AS PER PR (In Hectares)	ACTUAL AREA ACQUIRED AS ON 30.09.2024 (In Hectares)
FOREST LAND	0.20	0.00
OTHER GOVT. LAND	52.25	52.25
AGRICULTURAL LAND	785.69	785.69
(20.00 ha. Land provisioned for rehabilitation of Bhatadi village is yet to be acquired)		
<b>TOTAL</b>	<b>858.14</b>	<b>837.94</b>

287.57 Ha. land is acquired under CBA Act 1957 in the yr. 1990

82.15 Ha. Land is acquired under LA Act in the yr. 2007

467.01 Ha. Land is acquired under CBA Act 1957 in the yr. 2001

1.214 Ha. Land is acquired through direct purchase (As On 31.03.2019)

### PRESENT STATUS OF LAND USE PATTERN (All Figures in HECTARES )

SL	PARTICULARS	As Per EMP in (Ha)
1	Quarry area	161.32
2	External OB Dumps	142.10
3	Infrastructure	10.90
4	Roads	8.45
5	Township	16.70
6	Embankment	13.00
7	Temporary Top soil dump	40.20
8	Miscellaneous	465.27
	Total	857.94

### STATUS OF LEGAL COMPLIANCE

A	Consent under Water (Prevention & Control of Pollution) Act	Consent to operate for the coal production capacity of 1.465 MTPA vide Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024.
B	Consent Fees under Water (Prevention & Control of Pollution) Act	Water Cess has been discontinued from July 2017. However, ground water/mine water abstraction charges are being regularly paid to CGWA and also obtained valid NOC.



C	Environment (Protection Act)	The project has been accorded Environmental Clearance by MOEF for expansion 0.975 to 1.465 Million Te./Yr. vide no. J-11015/151/2014-IA-II(M) 13 March 2020. (Copy enclosed)
D	Forest (Conservation) Act	Application for Stage-I clearance of 0.20 Ha forest land is under process.

## II -PART

	AIR POLLUTION CONTROL	STATUS OF ENVIRONMENT
A.	No. of Ambient Air Monitoring Stations	04 Nos.(Fortnightly) & 2 nos. of stations for fugitive emissions
B.	* Details of Locations	Location code
1	Bhatadi Village	CBOA-1
2	Colony	CBOA -2
3	Security Check Post	CBOA -3
4	Kitadi Village	CBOA -4
C.	** Ambient Air Quality Status for the Parameters prescribed by State Pollution Control Board.	Environment Monitoring results for the month of April -2024 to September-2024 is enclosed. This can be seen from the results that all the values are within permissible limits.
	A1: CBOA-1	
	A2: CBOA -2	
	A3: CBOA -3	
	A4: CBOA -4	
D	Fugitive dust monitoring Status	2 stations
	1.CHP	Environmental Monitoring reports for the month April -2024 to September-2024 enclosed.
	2. Weigh Bridge	

\*Location of the Sampling Stations have been delineated on the Working Mine Plan Enclosed.

\*\* Detailed Report of Sampling & Analysis of Ambient Air Quality as per the Statute of Standard & Approved Laboratory: CMPDIL's Report for the month of April -2024 to September-2024.

	WATER POLLUTION CONTROL	STATUS
A.	No. of Stations & Frequency of Monitoring	02 (Fortnightly)
B.	*Description of Locations	
	Mine Water Discharge	WI - CBOW-1
	Workshop ETP Water Discharge	W2 - CBOW-2
C.	** Average Concentrations of Major Pollutants prescribed by State Pollution control Board	Environment Monitoring results for the month of April -2024 to September-2024 enclosed. From the analysis report it can be seen that all parameters are well within the permissible limit.

Environmental Monitoring Reports for the month April -2024 to September-2024 are enclosed.

A	Quantity of Effluent discharged to local water course from each course( in m3/day)	4545 m3/day.
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\* Location of the Sampling Stations have been delineated on the Working Mine Plan Enclosed

\* Detailed Report of Sampling & Analysis of Effluent Quality as per the Statute of Standard & Approved.

Laboratory: CMPDIL's Report for the month of April -2024 to September-2024 is enclosed.

<b>NOISE POLLUTION CONTROL</b>		
A	No. of Noise Monitoring Stations	02 No.
B	* Description of Locations & dB (A) Value	CBON-1 Near CHP, CBON-2 Colony
C	**Average Concentrations of Major Pollutants prescribed by State Pollution control Board	From the analysis report it can be seen that all parameters are well within the permissible limit

\* Location Points have been delineated on the Working Mine Plan: ENCLOSED.

\* Detailed Report of Noise Monitoring as per the Statute to be enclosed: Report for the month of April -2024 to September-2024 is enclosed.

### **PART – III**

#### **STATUS OF IMPLEMENTATION OF PROVISIONS OF EMP AS ON 01.10.2024**

SL	PARTICULARS	During grant of EC	Current Year 01.04.2024 to 30.09.2024	Progressive upto 30.09.2024
1	Area Excavated (Hectares)	161.52	2.303	196.761
2	Top soil Removed (MM <sup>3</sup> )	---	0.135	3.592
3	Overburden Removed (MM <sup>3</sup> )	110.786	3.715	103.879
4	Overburden Back-filled (MM <sup>3</sup> )	46.463	0.557	5.988
5	Overburden Dumped (MM <sup>3</sup> )	64.323	3.715	94.328
6	Area to be recovered for physical reclamation (Hectares)	212.02	NIL	---
7	Area Reclaimed Biologically (Hectares)	---	NIL	--
8	Annual Production : (Coal in M. Te., OBR in MM <sup>3</sup> )	---	Coal: 0.538 Million Te. OB: 3.715Mm <sup>3</sup>	Coal: 17.599 MT

Note E C obtained for expansion 0.975 to 1.465 MTPA Vide ref No J-11015/151/2014-IA-II (M) dtd: 13<sup>th</sup> March 2020.

#### **AFFORESTATION \* (Nos.);**

SL	LOCATION	Current Year	Progressive
1	External OB Dumps	14500	62500
2	Embankments	-----	-----
3	Safety Zone	-----	-----
4	Back filled areas	-----	-----
5	Other areas	-----	134675
6	Along the periphery of mine	-----	59500
	TOTAL	14500	256675
Area under plantation (Progressive)		85.27 Hectares	
No. of plants per Hectare			
Species planted		Acasia, Shivan, Mango, Jamun, Teak, Bamboo, Gulmohar, Kranji, Shisoo, Behada, Neem, etc.	



## REHABILITATION & RESETTLEMENT

- 1) Land acquired under CBA act. 1957 in the year 1990 is 287.57 Ha. which includes 278.96 Ha. tenancy land and 8.61 Ha. Govt. Land Employment provided against this land is 113 no. as per norm.
- 2) Land acquired under LA act. 1897 in the year 2007 is 82.15 Ha. which includes 78.49 Ha. Tenancy land and 3.66 Ha. Govt Land employment provider against this land till date is 30 nos.
- 3) Land acquired under sec. 9(1) CBA act. 1957 at. 13.9.2011 is 467.21 Ha. which included 0.30 Ha diverted plot area, 426.73 Ha. Tenancy land, 39.98 Ha. Govt. land and 0.20Ha. Forest land. Administrative approval to 409 cases employment/monetary compensation has been approved by competent authority. Till date 299 cases of employment and 07 No. cases of M.C. is given and remaining cases of initiated employment/Monetary compensation is in process.
- 4) Regarding rehabilitation of Bhatadi village TLR survey has been conducted on dated 2 Sep. 2013 but this survey has been stopped by village 2 Sep. 2013

**EXPEDITURE: CAPITAL****EXPENDITURE ON POLLUTION CONTROL MEASURES AT BHATADI OCP as on 01.10.2024**

<b>I AIR POLLUTION CONTROL</b>			
<b>SL</b>	<b>Head</b>	<b>Project</b>	<b>Amount in Rs. Lakhs</b>
1	Black Topping of Coal Transport Road from Tirwanja to Padoli	BOCP	160.00
2	Black Topping of road from Check post to CHP	BOCP	2.10
3	Black Topping of surface road near SAM Office	BOCP	2.60
4	RCC Pavement near Weigh Bridge	BOCP	1.80
5	Repair of Cement road near weigh bridge	BOCP	3.08
6	Const. of concrete road from coal stock to CHP	BOCP	5.00
7	Const. of balance concrete road from CHP to Weigh Bridge	BOCP	8.00
8	Strengthening & widening to exiting road including balance concreting of road from CHA check post upto new weigh bridge as part of dust suppression measures at Bhatadi OCM of Chandrapur Area.	BOCP	12.31
9	Construction of Concrete haul road at BOCM under PSA.	BOCP	9.88
10	Construction of Concrete Platform for stacking oil drum at store at BOCM of PSA.	BOCP	12.82
11	Mechanical Road sweeping M/C	BOCP	5.77
12	Mist fogger canon 100 m throw for dust suppression	BOCP	6.61
13	Continuous Ambient Air Quality Monitoring System	BOCP	78.95
	<b>TOTAL</b>		<b>308.92</b>
<b>B) MIST SPRAY SYSTEM/ FIXED SPRINKLERS INSTALLED /MOBILE TANKERS AS ON 01.10.2024</b>			
<b>SL</b>	<b>Head</b>	<b>Project</b>	<b>Amount in Rs. Lakhs</b>
1	Mist Sprinklers in CHP & Coal stock yard	BOCP	3.92
2	Fixed sprinklers at Weigh Bridge area	BOCP	1.02
3	Conversion of Dumper to Sprinkler	BOCP	1.00
4	Pipeline & sprinklers at workshop & Coal stock	BOCP	28.20
5	Making dust suppression arrangement with realignment of G.I pipeline work with providing rain guns sprinklers at CHP coal stock and weighbridge area.	BOCP	13.62
	<b>TOTAL</b>		<b>47.76</b>
<b>C) G.I.SHEET CLADDING OF COAL HANDLING PLANT AS ON 01.10.2024</b>			
<b>SL</b>	<b>Head</b>	<b>Project</b>	<b>Amount in Rs. Lakhs</b>
1	Side cladding of CHP	BOCP	10.56
2	Shed & side cladding to feeder breaker of CHP	BOCP	1.64
	<b>Total</b>		<b>12.20</b>
	<b>GRAND TOTAL- ( A+ B+ C)</b>	<b>BOCP</b>	<b>283.32</b>




<b>WATER POLLUTION CONTROL</b>			
<b>SL</b>	<b>Head</b>	<b>Project</b>	<b>Amount in Rs. Lakhs</b>
1	Sedimentation pond for mine discharge	BOCP	2.89
2	Development of workshop ETP	BOCP	5.78
3	Additional Sludge bed at W/S ETP	BOCP	0.30
4	Up gradation of mine water sedimentation plant	BOCP	2.43
5	Providing & Fixing oil skimmer at ETP of BOCM	BOCP	4.75
6	Making temp. shed for oil grease, barrel at BOCM	BOCP	7.18
7	Making Settling tank and Pressure Filter	BOCP	15.08
8	Provision of DETP for colony	BOCP	4.29
<b>TOTAL</b>			20.32
<b>TOTAL CAPITAL EXPENDITURE (I + II)</b>			<b>303.64</b>

  
18/11/24  
SAE (Civil)  
Bhatadi OCM

  
19/11/24  
Mine Manager  
Bhatadi OCM

  
19/11/24  
Sub Area Manager  
Bhatadi Sub Area

  
22/11  
Area Nodal Officer (Env)  
WCL-Chandrapur Area

## PART-IV

**Project:-**

**BHATADI OPENCAST EXPANSION PROJECT**

**Environmental Clearance:-**No.J-11015/151/2014-IA-II(M) dt.13<sup>th</sup> March, 2020

**Six Monthly Compliance Report:-** 01.04.2024 to 30.09.2024

### COMPLIANCE REPORT AGAINST ENVIRONMENTAL CLEARANCE

S.N.	EC CONDITIONS	COMPLIANCE STATUS
(i)	Distance from the mine and OB Dumps shall be 150 m away from river.	Complied. The nearest boundary of mine lease is 300m away from the river.
(ii)	All additional mitigation measures proposed shall be implemented in 1 year of issue of this letter.	Complied. Mechanical Road Sweeping Machine has already been procured and deployed as and when required. Pipe conveyor system has been commissioned for a length of 6.25 km and is in operational with a capacity of 500 tonne per hour. One Mist fogger cannon 100m throw is provided at coal stock yard to suppress fugitive emissions.
(iii)	Project proponent to plant 1,00,000 nos. of native trees with broad leaves along the periphery of the mine to prevent the effect of air pollution in 3 years of the issue of this letter. After completion of tree plantation number of trees shall be duly endorsed from District Forest Officer.	Being complied/ Partially complied. Till date plantation of total 2,56,675 nos. has carried out in Bhatadi OC mine.  In compliance to this condition, till date plantation of 74,000 nos. along the periphery of the mine has been carried out. The year-wise plantation details are as follows:- 1) 2020-21 – 22,000 nos. 2) 2021-22 – 37,500 nos. 3) 2023-24 – 14,500 nos.  The rest 26,000 nos. of plantation has not been achieved as the dump is still active and the final height is yet to be reached and also due to the space restrictions. In this regard, PP has committed for completion of the activity by the January 2025.  The geo tagged photographs are enclosed as Annexure-VI
(iv)	Validity of EC is life of the mine or 30 years whichever is earlier as per EIA Notification, 2006.	Noted
(v)	The project proponent shall obtain Consent to Establish from the State Pollution Control Boards for the proposed peak capacity of 1.465 MTPA prior to commencement of the increased production.	Complied. Consent approved vide Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024. Applied for CTO Renewal vide UAN No. MPCB-CONSENT-0000198340 Dtd: 10.02.2024 upto 31.03.2025.



		The relevant copies are enclosed as Annexure- II, III & IV.														
(vi)	Transportation of coal from Coal Handling Plant shall be through covered trucks.	Complied. Pipe conveyor has been commissioned & operational. Most of the coal is being transported through pipe conveyor only. Road transport through tarpaulin covered trucks is resorted only in case the Pipe Conveyor is under maintenance.														
(vii)	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	Complied. All the dust control arrangements are in place at crusher and in belt conveyor. Mist spray nozzles are provided under such arrangement and the geo-tagged photographs are enclosed as Annexure-VII														
(viii)	Mitigating measures shall be undertaken to control dust and other fugitive emissions all along the roads by providing sufficient 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.	Complied. 1 mobile tanker of 10KL capacity is used for dust suppression on coal transport road. 3 No. of 28KL water tankers are provided for sprinkling water on Haul Roads in the mine. 30 no. ranguns are provided along Coal Stock Yard. 13 no of sprinklers are provided along Coal transport road. 3 no high efficiency ranguns provided in CHP area. 30 nos of mist spray nozzles provided in CHP and Conveyor at Bhatadi OCM. Avenue Plantation has been done along the Coal Transportation Road. Additionally a One Mist fogger cannon with 100 m throw is provided at coal stock yard to suppress fugitive emissions. The geo tagged photographs of the dust suppression measures are enclosed as Annexure-VII.														
(ix)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	Complied. The mine has a dedicated Safety Management Plan to monitor identify and monitor hazards during operations. 20% of the workforce is subjected to PME every year for monitoring of occupational health issues. Data are as follows; <table border="1" data-bbox="758 1550 1337 1854"> <thead> <tr> <th>Year</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>287</td> </tr> <tr> <td>2020-21</td> <td>254</td> </tr> <tr> <td>2021-22</td> <td>179</td> </tr> <tr> <td>2022-23</td> <td>254</td> </tr> <tr> <td>2023-24</td> <td>308</td> </tr> <tr> <td>2024-25 (Till Oct'24)</td> <td>289</td> </tr> </tbody> </table>	Year	PME	2019-20	287	2020-21	254	2021-22	179	2022-23	254	2023-24	308	2024-25 (Till Oct'24)	289
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(x)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	Complied. Persons of nearby villages are given training under CSR for livelihood and skill development. During FY 2021-24, 278 nos. of persons were given training at CIPET at an approximate cost of Rs. 1.94 Crores. As on date 153 nos. of local youths from adjacent villages														



		of Bhatadi, TirwanjaMokasa and ChakTirwanja are indirectly employed in the mine through HOE Operator														
(xi)	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.	Being Complied/ Partially complied. Till date total 256675 nos. plantation has carried out in Bhatadi OC mine..74,000nos. plants have been planted along periphery of mine and OB dumps from 2020-2024to mitigate dust pollution. The expansion of the proposed mine is under process and on acquisition of the additional land, additional plantation along the acquired land shall be carried out.														
(xii)	Efforts shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.	Mine water is utilized for domestic water requirement and dust suppression purposes after treatment. Alternate arrangement through borewells, with due permission from CGWA, are also in place. No water from any surface water source is utilized.														
(xiii)	The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 1.465 MTPA.	Partially complied. NOC has been approved vide NOC No. CGWA/NOC/MIN/ORIG/2020/7631 dtd: 13.03.2020 which is valid upto 12.03.2022. Renewal application for further period i.e upto 12.03.2024 has been approved but formal NOC letter from CGWA is awaited. The approval status in the CGWA website is enclosed as <b>Annexure-VIII</b> Renewal application till 12.03.2026 is under process with CGWA. The copy of application mail sent to CGWA is enclosed as <b>Annexure-IX</b> .														
(xiv)	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	Complied. The mine has a dedicated Safety Management Plan to monitor identify and monitor hazards during operations. 20% of the workforce is subjected to PME every year for monitoring of occupational health issues. Data are as follows; <table border="1" data-bbox="758 1400 1337 1713"> <thead> <tr> <th>Year</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>287</td> </tr> <tr> <td>2020-21</td> <td>254</td> </tr> <tr> <td>2021-22</td> <td>179</td> </tr> <tr> <td>2022-23</td> <td>254</td> </tr> <tr> <td>2023-24</td> <td>308</td> </tr> <tr> <td>2024-25 (Till Oct'24)</td> <td>289</td> </tr> </tbody> </table>	Year	PME	2019-20	287	2020-21	254	2021-22	179	2022-23	254	2023-24	308	2024-25 (Till Oct'24)	289
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(xv)	A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRE/NEERI/IIT or any other expert agency identified by the Ministry.	Complied The third party assessment of EC conditions has been carried out through CSIR-NEERI and the work order vide letterवेकोलि/ मुख्यालय/ पर्यावरण/ 16-U/1325-1336दिनांक: 22.12.2022 is enclosed as <b>Annexure-X</b> The EC compliance audit has been done in December 2022 and report of the same is attached as Annexure - XI														
(xvi)	Active OB Dump should not be kept barren/ open and should be covered by temporary grass to avoid air	Being Complied/ Partially complied. Grassing has been done in non-operational area of the OB dump. Further, plantation of 14500 nos. in 5 ha area of the														



	borne of particles.	dump has been carried out in 2023-24. At present most of the OB dumping operation is on external OB Dump Area. On completion of the OB dump, grassing/ plantation work shall be carried out.
(xvii)	The activities and fund provisions for CER shall be made as per the guidelines issued by the ministry regarding CER on 1 <sup>st</sup> May, 2018.	The present project does not involve any additional capital and hence, CER is not applicable. Activities under CSR are regularly carried out as per existing regulations.
(xviii)	Project Proponent shall obtain blasting permission from DGMS for conducting mining operation near villages and also explore deployment 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.	Controlled Blasting is carried out using shock tubes as per DGMS guidelines to control ground vibrations and arrest fly rocks. As per the existing guidelines, blasting is carried out as per scientific study carried out for the purpose through MBM Engineering College, Jodhpur.
(xix)	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.	Agreed. No compensation or fines have been levied on the project in lieu of the referred SC judgment.
(xx)	Project Proponent shall obtain the necessary prior permission from the Central Ground Water Authority (CGWA) in case of intersecting the Ground Water table. The intersecting ground water table can only be commence after conducting detailed hydrogeological study and necessary permission from the CGWA. The Report on six monthly basis on changes in Ground water level and quality shall be submitted to the Regional Office of the Ministry, CGWA and State Pollution Control Board.	NOC has been approved vide NOC No. CGWA/NOC/MIN/ORIG/2020/7631 dtd: 13.03.2020 which is valid upto 12.03.2022. Renewal application for further period i.e. upto 12.03.2024 has been approved but formal NOC letter from CGWA is awaited. The approval status in the CGWA website is enclosed as <b>Annexure-VIII</b>  Renewal application till 12.03.2026 is under process with CGWA. The copy of application mail sent to CGWA is enclosed as <b>Annexure-IX</b> .  Monitoring report on levels and quality of ground water are submitted along with six monthly EC Compliance on regular basis. Copy enclosed as Annexure-XI

(xxi)	<p>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 antsnake venom including all other paramedical safeguards may be ensured before initiating the mining activities.</p>	<p>50-bedded Area Hospital with specialist doctors and one dedicated mine dispensary have been provided for looking after occupational and other health parameters of employees and dependents</p> <p>20% of the workforce is subjected to PME every year for monitoring of occupational health hazard.</p>
(xxii)	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29<sup>th</sup> October, 2014 titled "Impact of mining activities on Habitation-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>Agreed and being complied.</p>
(xxiii)	<p>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.</p>	<p>Complied.</p> <p>Illumination at the mine site is provided as per statute(DGMS). The levels are also monitored. No undue light or sound is thrown on the nearby villages. Ambient noise level is monitored fortnightly and results are enclosed as <b>Annexure-XII</b></p>
(xxiv)	<p>The Project proponent shall take all precautionary measures during</p>	<p>Being complied. The work for the preparation of Action Plan for</p>



	<p>mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with 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.</p>	<p>conservation of flora and fauna has been taken up through CSIR-NEERI and WII-Dehradun vide W.O. No.Desk-23(2)/Survey/WL/CR NO.102/1706/202/21 Dtd.06.11.2020. The study is scheduled for completion in July 2025.</p> <p>Interim report of the study is attached for kind perusal (Annexure – XIII)</p> <p>Recommendations of this study shall be implemented on receipt of the final report.</p>
(xxv)	<p>Hon'ble Supreme Court in an Writ Petition(s) Civil No. 114/2014, Common Cause vs Union of India &amp;Ors vide its judgment 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 disturbed 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 condition shall be sent to the Regional Office of the Ministry.</p>	<p>The mine is currently operational and further expansion of the mine lease area is under process. The balance life of mine is about 15 years. As per the approved mining plan, backfilling and plantation shall be taken up to ensure compliance of the condition.</p>
(xxvi)	<p>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 and 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 24<sup>th</sup> October, 2019 while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.</p>	<p>CTO for the production capacity 1.465 MTPA has been granted vide no. Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024.</p> <p>Applied for CTO Renewal vide UAN No. MPCB-CONSENT-0000198340 Dtd: 10.02.2024 upto 31.03.2025.</p> <p>The relevant copies are enclosed as Annexure- II, III &amp; IV.</p>
(xxvii)	<p>The green belt of at least 5-10 m width shall be developed in more that 40% of the total project area,</p>	<p>Till date total 256675 nos. plantation has carried out in Bhatadi OC mine which includes avenue plantation along coal transport road, plantation on OB dumps and in vacant</p>



	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.	areas near mine infrastructure. 74,000 nos. plants have been planted along periphery of mine and OB dumps from 2020-2023 to mitigate dust pollution.								
(xxviii)	In addition, the project proponent shall develop greenbelt outside the plant premises such as avenue plantation, plantation in vacant areas, social forestry etc.	Outside mine area plantation has already been developed by WCL Chandrapur Area in degraded forest land with FDCM for 150 ha. Similarly, Chandrapur area has contributed 5 crores for development of an APJ Abdul Kalam Ecopark. The photos are enclosed as <b>Annexure-XIV</b> .								
(xxix)	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Complied The third party assessment of EC conditions has been carried out through CSIR-NEERI and the work order vide letter वेकोलि/ मुख्यालय/ पर्यावरण/ 16-U/1325-1336 दिनांक: 22.12.2022 is enclosed as <b>Annexure-X</b> The EC compliance audit has been done in December 2022 and report of the same is attached as Annexure - XI								
(xxx)	The percentage the CER may be atleast 2 times the amount given in the OM dated 1 <sup>st</sup> May, 2018 recommended by the EAC and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Noted Present expansion is without any increase in capital investment so CER does not applicable. <table border="1" data-bbox="842 1016 1337 1155"> <thead> <tr> <th>FY</th> <th>Cost (Rs in Lakh.)</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>2.15</td> </tr> <tr> <td>2022-23</td> <td>9.175</td> </tr> <tr> <td>2023-24</td> <td>6.61</td> </tr> </tbody> </table>	FY	Cost (Rs in Lakh.)	2021-22	2.15	2022-23	9.175	2023-24	6.61
FY	Cost (Rs in Lakh.)									
2021-22	2.15									
2022-23	9.175									
2023-24	6.61									
(xxxii)	Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.	Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile tankers are deployed on coal transportation road and haul road. Sprinklers and rainguns are provided for coal stock yard. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions. Transportation of coal through Pipe Conveyor System is followed to eliminate emissions during transportation.								
(xxxiii)	Transportation of materials by rail/conveyor belt, wherever feasible.	Pipe conveyor has already been commissioned & operational at the mine and would account for the majority of coal transport from the mine.								
(xxxiiii)	A detailed water harvesting plan may be submitted by the project proponent.	Rain Water Harvesting Structure at Bhatadi OCP has already been installed at an approximate cost of Rs. 2.63 lakhs during 2020-21. The Geo tagged photographs are enclosed in the Part-I of this report.								
(xxxv)	In case domestic waste water generation is more than 10 KLD, the industry may install STP.	STP of 50 KLD has been provided. The Geo tagged photographs are enclosed in the Part-I of this report.								
(xxxvi)	Monitoring of compliance of EC conditions may be submitted with	Complied The third party assessment of EC conditions has been								

	third party audit every year.	carried out through CSIR-NEERI and the work order vide letterवेकोलि/ मुख्यालय/ पर्यावरण/ 16-U/1325-1336दिनांक: 22.12.2022 is enclosed as <b>Annexure-X</b> The EC compliance audit has been done in December 2022 and report of the same is attached as Annexure - XI
(xxxvi)	PP shall comply all the conditions of earlier EC dated 19 <sup>th</sup> March, 2015 in 3 years from the issue of this letter and submit a copy of compliance to Ministry's Regional Office.	Noted All the conditions of earlier EC dtd: 19th March 2015 are already complied or in compliance and has been certified by Regional Office of MoEF&CC during its inspection on 22.01.2018.  The copy of the inspection report is enclosed as <b>Annexure-XV</b> .
(xxxvii)	All the recommendation of comprehensive study being conducted by NEERI shall be implemented by project proponent within certain timeline and necessary timeline shall be submitted to Ministry's Regional Office.	Noted and will be complied once the report received.
<b>4.1</b>	<b>The grant of environmental clearance is further subject to compliance of the Standard EC conditions as under:</b>	
<b>(a)</b>	<b>Statutory compliance</b>	
(i)	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986 in case of the diversion of forest land for non-forest purpose involved in the project.	In present EC boundary of 847.37 Ha, there is no forest land involved.
(ii)	The project proponent shall obtain clearance from the National Board for 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 recommendations 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- I species in the study area).	Noted A detailed 2 year study is being undertaken for conservation of wildlife in the project area in association with reputed Institute NEERI, Nagpur and Wildlife Institute of India, Dehradun. A draft report has been received and enclosed as Annexure-XIII.  Recommendations of this study shall be implemented on receipt of the final report.



(iv)	The project proponent shall obtain Consent to Establish/Operate under the provision of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board / Committee.	CTO for the production capacity 1.465 MTPA has been granted vide no. Format 1.0/CAC/UAN No. 00000165617/CR/-2311001779 dt. 22.11.2023 for a period upto 31.03.2024. Applied for CTO Renewal vide UAN No. MPCB-CONSENT-0000198340 Dtd: 10.02.2024 upto 31.03.2025 The relevant copies are enclosed as Annexure- II, III & IV.
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	NOC has been approved vide NOC No. CGWA/NOC/MIN/ORIG/2020/7631 dtd: 13.03.2020 which is valid upto 12.03.2022. Renewal application for further period i.e upto 12.03.2024 has been approved but formal NOC letter from CGWA is awaited. The approval status in the CGWA website is enclosed as <b>Annexure-VIII</b> Renewal application till 12.03.2026 is under process with CGWA. The copy of application mail sent to CGWA is enclosed as <b>Annexure-IX</b> .
(vi)	Solid/hazardous waste generated in the mines needs to be addressed in accordance to the Solid Waste Management Rules, 2016/Hazardous & Other Waste Management Rules, 2016.	Solid/hazardous waste generated in the Bhatadi OC is disposed via MPCB authorized agency to CHWTSDF. Copy of agreement with CHWTSDF is attached as <b>Annexure -XVI</b> .
<b>(b)</b>	<b>Air quality monitoring and preservation</b>	
(i)	Continuous ambient air quality monitoring stations as prescribed in the statute be established in the core zone as well as in the buffer zone for monitoring of pollutants namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . 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.	Ambient air quality monitoring is done fortnightly for pollutants namely PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> by Central Mine Planning & Design Institute Limited (CMPDIL) in the core zone as well as in the buffer zone. Reports are regularly submitted to MPCB & MoEF&CC (Annexure-V)  One CAAQMS has been installed for Bhatadi OC Mine at SAM Office in consultation with MPCB.  Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions. Monitoring of Heavy Metals is also carried out every six months and reports are submitted to RO, MoEF&CC vide Email (Annexure-XVII)
(ii)	The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25 <sup>th</sup> September, 2000 and as amended from time to	Monitoring is done by CMPDIL as per GSR 742 (E) dated 25 <sup>th</sup> September, 2000 and reports are submitted to Ministry/Regional Office and to the CPCB/MPCB. Monitoring of Heavy Metals is also carried out every six months and reports are submitted to RO, MoEF&CC vide Email.



	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.	Last such report on Heavy metals submitted is enclosed as <b>Annexure-XVIII</b> in the above point.
(iii)	Transportation of coal, to the extent permitted by road shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/ mist sprinkling/rain gun etc shall be carried out in critical areas prone to air pollution (with higher values of PM <sub>10</sub> /PM <sub>2.5</sub> ) 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.	Coal transportation to CSTPS is through Pipe-Conveyor mode. Road transportation through covered trucks is done only in case the pipe conveyor is under maintenance.  Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile tankers are deployed for coal transportation road and haul road. Sprinklers and rainguns are provided for coal stock yard.  Additionally a One Mist fogger cannon of 100 m throw capacity is also provided is provided at coal stock yard to suppress fugitive emissions.
(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 a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	Complied. Coal transportation is through pipe Conveyor mode only.
(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 motor vehicles used in the mining and allied activities have valid PUC certificates. However, HEMMs engaged in mining activity are beyond the scope of Motor Vehicles and regular maintenance is carried out to prevent air pollution.
(vi)	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably 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	Mist. spray system & Side Cladding provided at crusher for dust suppression. Sprinklers and rain-guns are provided around coal stock yard & crusher. Drills are fitted with dust extractor. Additionally a One Mist fogger cannon is provided at coal stock yard to suppress fugitive emissions.

	wet operated or fitted with dust extractors.	
(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.	Mist. spray system & Side Cladding provided at CHP for control of fugitive emissions. Mobile fogger has been proposed for Bhatadi CHP area for conservation of water.
(c)	<b>Water quality monitoring and preservation</b>	
(i)	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 <sup>th</sup> September, 2000 and as amended from time to time by the Central Pollution Control Board.	Monitoring is done by CMPDIL as per GSR 742 (E) dated 25 <sup>th</sup> September, 2000 and reports are submitted to Ministry/Regional Office and to the CPCB/SPCB vide Emailas <b>Annexure-V</b> .
(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-20012/1/2006-1A.11 (M) dated 27 <sup>th</sup> May, 2009 issued by Ministry of Environment, Forest & Climate Change shall also be referred in this regard for its compliance.	The Monitoring data is BEING uploaded regularly on company website www.westerncoal.in and at Sub Area Manager Office
(iii)	Regular Monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	Ground water monitoring is being done four times every year (May to January) and report is submitted to MoEFCC& CGWA vide email in six monthly EC Compliance.  The copy of Monitoring Report enclosed as <b>Annexure-XVIII</b>  02 nos. Piezometers have been installed in the mine for monitoring of ground water levels.
(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	Monitoring of water quality upstream and downstream of Erai river is carried out once in six months and reports are submitted to RO, MoEF&CC vide email. Copy enclosed as <b>Annexure-XIX</b>



	Change/Regional Office.	
(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.	No ground water is used for mining operations. Rain Water Harvesting at SAM Office, Bhatadi OCP has been constructed at an approximate cost of Rs. 2.63 lakhs.
(vi)	Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dump shall be avoided by providing adequate channels for flow of silt into the drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression and green belt 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.	For existing Bhatadi OCP garland drain/catch drain of size 2.5 mtrs x 2.5 mtrs is constructed around periphery of mine for total length of 4.00 km so as to arrest silt & sediment flow from the OB dumps & mine. Water pumped out from the mine is discharged onto the surface & made to pass thorough a sedimentation pond. The clear water from the sedimentation tank is used for activities like dust suppression on haul roads & in & around CHP. Green belt development as expansion project shall commence the catch drain shall be extended suitably. At Bhatadi OCP one retaining wall exists inside mine of length 80 mtr. below view point. Catch drains are provided to collect runoff and siltation from OB Dumps as expansion project commences additional toe wall shall be constructed as and when required.
(vii)	Adequate ground water recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).	Rain Water Harvesting at SAM Office, Bhatadi OCP has been constructed at an approximate cost of Rs. 2.63 lakhs. Artificial ground water recharge is being done through one no. of rain harvesting pond (size 110 x 60 m). There is no shortage of water in the nearby villages.
(viii)	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	Sedimentation tanks for mine water treatment & ETP of capacity 75 KLD is provided and fitted with oil & grease trap for HEMM Workshop. Treated water is reused for washing of HEMM.

	under the standards prescribed under Water Act 1974 and Environmental (Protection) Act, 1986 and the Rules made there under, and as amended from time to time, Adequate ETP/STP needs to be provided.	STP of Capacity 50KLD provided for Colony.
(ix)	The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. Watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Pumped out water is used for dust suppression, gardening and drinking purpose after suitable treatment. Drains are regularly de-silted before the onset of monsoon.
(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 river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GoI Authority. The construction of embankment to prevent any danger against inrush of 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.	<p>The surface drainage plan has already been prepared and incorporated in the EMP and precautionary measures are being followed for the mining as well as land reclamation activities.</p> <p>As detailed in the statutory documents, no diversion of natural water course is involved in the project area at present.</p> <p>The area under embankment proposed in the post mining land use of EC is 13.0 ha with plantation to be developed at the end of mining. As against this, embankment of 1500 m length with top width of 30 m and bottom width of 40 m have been constructed along N-NE side of the existing quarry-1.</p>
(xi)	The project proponent shall take all precautionary measures to ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation/water resource department in the state government.	<p>Complied.</p> <p>Study on riverine ecosystem has been carried out through CMPDIL, Ranchi and copy of the draft report is attached for kind perusal. <b>Annexure -XXI</b></p>
(d)	<b>Noise and Vibration monitoring and prevention</b>	
(i)	Adequate measures shall be taken for control of noise levels as per	Workers engaged in drilling and blasting operations, operation of HEMM are provided with personal protective



	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.	equipments like earplug/ear muffs. Awareness program for the users is periodically conducted by the safety department of unit and the progress of such progress in use of such accessories is being monitored. Details of PPE provided (helmets, mining shoes, gum boots and safety jackets) in past 3 years is given below:-  <table border="1"> <thead> <tr> <th>Year</th> <th>PPE Nos.</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>951</td> </tr> <tr> <td>2022</td> <td>1250</td> </tr> <tr> <td>2023</td> <td>1138</td> </tr> <tr> <td>2024 (upto October)</td> <td>665</td> </tr> </tbody> </table>	Year	PPE Nos.	2021	951	2022	1250	2023	1138	2024 (upto October)	665
Year	PPE Nos.											
2021	951											
2022	1250											
2023	1138											
2024 (upto October)	665											
(ii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.	Controlled blasting is being done with the help of shock tube. Blasting hours are fixed and blasting is carried out with due precautions. Vibrations are recorded using Vibrometer and results are within limit.										
(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six monthly basis.	Noise Monitoring is done by CMPDIL on fortnightly basis at CHP and near colony Monitoring results are within permissible limits and reports are regularly submitted to regional office of MoEFCC vide email at <a href="mailto:ecompliance-mh@gov.in">ecompliance-mh@gov.in</a> and uploaded on Parivesh Portal.										
<b>(e)</b>	<b>Mining Plan</b>											
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Complied. Mining is being carried out as per approved mining plan.										
(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).	Agreed for compliance										
(iii)	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	No forest land is involved in the lease area of 847.37 Ha										
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Already being done. A solar power plant of capacity 140 kWh/day has been installed at Bhatadi OC. In future also such endeavours will be perused. Moreover, LED lightings, use of electric vehicles are other measures adopted to reduce energy consumption. The geo tagged photographs are enclosed as <b>Annexure-XXII</b>										
<b>(f)</b>	<b>Land reclamation</b>											



(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 & Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/regional Office (RO).	Mapping of the project is done once in 3 years and the same is uploaded on WCL website. Report is submitted to MoEFCC, RO office in every six-month.  Land Reclamation report of Bhatadi OC for the year 2023 is enclosed as <b>Annexure-XXIII</b> .
(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 agriculture/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 27th August, 2009 and subsequent amendments.	Currently life of mine is 8 years and backfilling is in progress. Till 30.09.2024, 5.988 Mm <sup>3</sup> of overburden has been backfilled in the quarry and the same is being continued. Top soil quantity of 3.592 Mm <sup>3</sup> has been removed and stored in separate top soil dump. The same shall be utilized for plantation/afforestation. As a part of progressive mine closure plan till date 85.27 Ha of land has been covered with plantation (256675 Nos).
(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-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.	Present status as on date is in line with EIA/EMP : Excavated Area 196.76 Ha, Backfilling done with 5.988 Mm <sup>3</sup> OB, yet to reach GL External OB dumping (including top soil) = 103.879 Mm <sup>3</sup> (174.788 Ha), Infrastructure = 14.45 Ha, Green belt(Afforestation) = 85.27 Ha, Colony = 16.55 Ha. Post mining Land use pattern will be adhered as per EIA/EMP submitted to the MoEF&CC.
(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 3rd November, 2009 as amended from time to time. Efforts shall be made to utilize gypsum generated from Flues Gas Desulfurization (FGD), if any,	Regarding this, it is submitted that the subject mine is an operational mine & dumping of fly ash in such mine involves severe environmental & safety issues. CIL so far as directed for fly ash filling in abandoned mines only. Moreover, MOC & MoEF&CC has jointly agreed for a detailed scientific study on this issue. As such, till an informed decision is arrived, the condition may be kept on hold.



	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.	
(v)	Further, it may be ensure that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface 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.	Till date top soil of amount 3.592 Mm <sup>3</sup> has been removed and is stored in a separate dump. The same shall be utilized for plantation after the OB dumps reach designated height. 23.05 Ha area of external OB dumps has been covered with plantation. Till date 5.988 M <sup>3</sup> of OB has been utilized for backfilling of mine void. The post-mining land use shall be in accordance with the approved mining plan and EIA/EMP.
(vi)	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	The present project does not involve grazing land. Hence not applicable.
<b>(g)</b>	<b>Green Belt</b>	
(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 & Wildlife Department.	Being complied. The work for the preparation of Action Plan for conservation of flora and fauna has been taken up through CSIR-NEERI and WII-Dehradun vide W.O. No.Desk-23(2)/Survey/WL/CR NO.102/1706/202/21 Dtd.06.11.2020. The study is scheduled for completion in July 2025. Interim report of the study is attached for kind perusal. Recommendations of this study shall be implemented on receipt of the same.

(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.	Till date total 256675 nos. plantation has carried out in Bhatadi OC mine. Proposal of planting One Lakh trees in mine with an approximate 40.00 ha. area has already been initiated. 74,000nos. plants have been planted along periphery of mine and OB dumps from 2020-2024 to mitigate dust pollution.														
<b>(h)</b>	<b>Pub Hearing and Human Health issues</b>															
(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 and it's RO on 6 monthly basis.	Complied. Illumination at the mine site is provided as per statuteMonitoring is done on monthly basis. Report shall be submitted to Ministry and it's RO along with 6 monthly EC Compliance. Copy of last 6 months enclosed for your reference as Annexure-XXIV.														
(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 Mines Rules, 1955 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, if any, as amended time to time.	Noted Periodical medical examination of 20% of the workforce is being done annually. Data is as follows <table border="1" data-bbox="754 913 1329 1218"> <thead> <tr> <th>Year</th> <th>PME</th> </tr> </thead> <tbody> <tr> <td>2019-20</td> <td>287</td> </tr> <tr> <td>2020-21</td> <td>254</td> </tr> <tr> <td>2021-22</td> <td>179</td> </tr> <tr> <td>2022-23</td> <td>254</td> </tr> <tr> <td>2023-24</td> <td>308</td> </tr> <tr> <td>2024-25 (Till Oct'24)</td> <td>289</td> </tr> </tbody> </table>	Year	PME	2019-20	287	2020-21	254	2021-22	179	2022-23	254	2023-24	308	2024-25 (Till Oct'24)	289
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(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.	Complied. Masks are provided as protective gear.. Details of PPE provided (helmets, mining shoes, gum boots and safety jackets)in past 3 years is given below:- <table border="1" data-bbox="754 1626 1457 1800"> <thead> <tr> <th>Year</th> <th>PPE Nos.</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>951</td> </tr> <tr> <td>2022</td> <td>1250</td> </tr> <tr> <td>2023</td> <td>1138</td> </tr> <tr> <td>2024 (upto October)</td> <td>665</td> </tr> </tbody> </table> Training and informative sessions are kept for the Personnel (including outsourced employees) working in core zone at Vocational Training Centre (VTC), Chandrapur	Year	PPE Nos.	2021	951	2022	1250	2023	1138	2024 (upto October)	665				
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2024 (upto October)	665															
(iv)	Implementation of action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake	Complied. 509 nos. of land oustees have been provided in Bhatadi OC Mine till date. A total compensation of Rs.92.614 Crores has been provided for the land acquisition of present 847.37														



	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.	Ha.
(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-1A.II(M) dated 29th October, 2014, titled 'impact of mining activities on habitations-issues related to the mining projects where in habitations and villages are the part of smileys areas or habitations and villages are surrounded by the mine lease area'.	Complied. Point wise compliance report of the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-1A.II(M) dated 29th October, 2014 is enclosed as Annexure -XXV
(i)	<b>Corporate Environment Responsibility</b>	
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-1A.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	This is an existing mine with expansion without capital investment so CER is not applicable.
(ii)	The company shall have a well laid down environmental policy duly approved 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 a defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms /conditions and/or shareholders/stakeholders	Company has a well laid down Corporate Environment Policy which is already available on the WCL website. <b>(Annexure-XXVI)</b>
(iii)	Separate environmental cell both at the project and company headquarter level with qualified personnel shall be set up under the control of senior executive who will directly to the head of the organisation.	At corporate level the Environmental issues are dealt by Director(Tech) P&P and GM(Env.). At area level it is headed by General Manager (Opr) & Area Nodal Officer under the overall control of Area General Manager. At project level, by Sub Area Manager through Nodal officer (Env) of the project.

(iv)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by the competent authority. The year wise funds earmarked for the environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Yearwise progress of implementation of action plan shall be reported to the ministry/Regional office along with the six monthly compliance report.	<p>Complied.</p> <p>Annual Fund is allocated to Environment Department under Capital and Revenue Budget which is used solely for implementation of Environmental Activities under EMP. Utilization of last three years is given below:</p> <table border="1" data-bbox="754 315 1412 763"> <thead> <tr> <th>Year</th> <th>Revenue Expenditure (Rs. Lakhs)</th> <th>Capital Expenditure (Rs. Lakhs)</th> </tr> </thead> <tbody> <tr> <td>2021-22</td> <td>151.29</td> <td>6.61</td> </tr> <tr> <td>2022-23</td> <td>100.41</td> <td>11.72</td> </tr> <tr> <td>2023-24</td> <td>286.24</td> <td>6.74</td> </tr> <tr> <td>2024-25 (till Oct'24)</td> <td>23.06</td> <td>78.96</td> </tr> </tbody> </table>	Year	Revenue Expenditure (Rs. Lakhs)	Capital Expenditure (Rs. Lakhs)	2021-22	151.29	6.61	2022-23	100.41	11.72	2023-24	286.24	6.74	2024-25 (till Oct'24)	23.06	78.96
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(v)	Self environmental audit shall be conducted annually. Every 3 years third party environmental audit shall be carried out.	<p>Complied.</p> <p>Work has been awarded to CSIR-NEERI vide letter वेकेलि/मुख्यालय/पर्यावरण/ 16-U/1325-1336 दिनांक: 22.12.2022. Copy of the previous report is attached for kind perusal.</p>															
(j)	<b>Miscellaneous</b>																
(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 in at least two local newspapers of the district or state, of which one shall be in vernacular language within 7 days and in addition this shall also be displayed in the project proponent's website permanently	<p>Complied. The Environmental clearance granted by MoEF&amp;CC has been published in</p> <ol style="list-style-type: none"> <li>1. Chandrapur Mahasagar (Marathi) dtd: 17.03.2020</li> <li>2. Mahavidarbha (Marathi) dtd: 17.03.2020</li> </ol> <p>The same has been uploaded on our company's website and is enclosed as <b>Annexure-XXVII</b></p>															
(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the heads of the local bodies Panchayats and Municipal Bodies in addition to the relevant offices of the government who inturn has to display the same for 30 days from the date of receipt.	<p>Copy of EC has been submitted to Local bodies, Panchayats and Municipal Bodies in addition to all relevant offices of the government vide letter WCL/CHA/AGM/ENV/1229 dtd: 15.03.2020 and is enclosed as <b>Annexure-XXVIII</b></p>															
(iii)	The project proponent shall upload the status of compliance of the stipulated environment Clearance conditions, including results of the monitored data on their website and update the same on half yearly basis.	<p>Complied.</p> <p>Compliance of EC Conditions along with monitoring data is being submitted to MoEF&amp;CC Regional office vide email and the same is being uploaded on Parivesh Portal. The latest submitted report through email is enclosed herewith as <b>Annexure-XXIX</b></p>															
(iv)	The project proponent shall monitor	Monitoring is being done by Central Mine Planning and															



	the criteria pollutants level namely; PM10, SO2 and NOx (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at convenient location for disclosure to the public and put on the website of the company	Design Institute (CMPDI) for the SPM, PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> and reports are submitted to MoEF&CC Regional office, Nagpur vide email and are uploaded on WCL website for stakeholders. The latest report submitted to Regional office, MoEF&CC through email is enclosed in annexure stated in the above row.
(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 reports are submitted to MoEF&CC office vide email and is uploaded on Parivesh Portal. The latest report submitted to Regional office, MoEF&CC through email (copy enclosed).
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-IA.II(M) dated 29th 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'.	Agreed for compliance.
(vii)	The project proponent shall submit 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.	Environment Statement is submitted online to SPCB annually as per EPA, 1986 and the same is BEING uploaded on the WCL website. Environment Statement for FY2023-24 was submitted online on MPCB portal vide UAN No. MPCB-ENVIRONMENT_STATEMENT-0000074712 dtd: 30.09.2024 and is enclosed as <b>Annexure-XXX</b>
(viii)	The project authorities shall inform to the Regional office of the MoEF&CC regarding commencement of mining operations.	The commencement of mining operations has been informed to Regional Office, MoEF&CC vide email and is enclosed as <b>Annexure-XXXI</b>
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Conditions stipulated by State Pollution Control Board, here MPCB via its Consent to Establish/Operate are being adhered.
(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.	Agreed and complied.

(xi)	No further expansion or modification in the plant shall be carried out without prior approval of the ministry of Environment, Forests and Climate Change.	Agreed.
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under provisions of Environment (Protection) Act, 1986	Noted
(xiii)	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions 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 Full cooperation will be extended to the officer(s) of MoEFCC Regional office, Nagpur regarding monitoring of compliance of conditions stipulated in the EC.
(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 Honorable Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter	Noted
5	The project proponent shall abide by all the commitments and recommendations made in EIA/EMP report and also that during the presentation to EAC. All the commitments made on the issues raised during public hearing shall also be implemented in the	Noted




	letter and spirit.	
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.	Noted
7	Any appeal against this environmental clearance Shall lie with the National Green Tribunal, if preferred, with in 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 illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2nd August 2017 of Hon'ble Supreme Court in WP(Civil) No. 114/2014 in the matter of 'Common Cause Vs Union of India & others'.	Noted However, production of the mine is done within EC limits. No illegal mining activities are carried out at the Bhatadi Opencast mine.
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 there respective Department of Mining and Geology, in strict compliance of judgement of Hon'ble Supreme Court.	Noted Mining is done in compliance of all the laws as applicable. No compensation has been imposed by the State Government.
10	This Environment Clearance shall not be operational till such time the project proponent complies with the above said judgement of Hon'ble Supreme Court, as applicable, and other statutory requirements.	Noted
11	This issues in suppression of the earlier EC granted vide letter dated 19 <sup>th</sup> March, 2015.	Noted

  
18/11/24  
SAE (Civil)  
Bhatadi OCM

  
19/11/24  
Mine Manager  
Bhatadi OCM

  
19/11/24  
Sub Area Manager  
Bhatadi Sub Area

  
22/11/24  
Area Nodal Officer (Env)  
WCL-Chandrapur Area