

WESTERN COALFIELDS LIMITED
OFFICE OF THE SUB AREA MANAGER
MUNGOLI NIRGUDA OPEN CAST PROJECT: WANI AREA
PO: SAKHARA (KOL) TA: WANI, DIST: YAVATMAL- 445307

RefNo.WCL/WA/SAM (M)//MSA/CIVIL/2024-25/ 172

Date:01/06/2024

To
Deputy Director General of Forests (Central)
Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Ground Floor, East
Wing, "New Secretariat Building", Civil Lines,
Nagpur, Maharashtra-440001


Sub: - Six monthly EC Compliance Report for Mungoli Nirguda Opencast Project, Wani Area for the period from 1st October 2023 to 31st March 2024.

Sir,

Please find enclosed herewith the Six-Monthly EC Compliance Report in respect of Mungoli Nirguda Extension Deep Opencast Mine, Wani Area for the period from 1st October 2023 to 31st March 2024.

Thankingyou.

Yours faithfully,


Sub Area Manager
(Mungoli Sub Area)



Copy To,

1. Regional Officer, MPCB Chandrapur.
2. The General Manager (Env) WCL, Nagpur
3. Area Nodal Officer (Env), Wani Area.
4. Office Copy

WESTERN COALFIELDS LIMITED

SIX MONTHLY

EC COMPLIANCE REPORT

FOR PERIOD OF

1st October 2023 to 31st March 2024



**MUNGOLI NIRGUDA EXTENSION DEEP OC Mine
WCL WANI AREA**

DATA SHEET as on 31/03/2024

1.	Project Type: River-valley / Mining / Industry /Thermal / Nuclear / Other (Specify)	Mining
2.	Name of the Project	Mungoli Nirguda Extension Deep OC Mine Project
3.	Clearance Letter (s) / OM No. and date	J-11015/299/2010-IA-II(M) dtd. 12/01/2022
4.	Location a. District (s) b. State (s) c. Latitude d. Longitude	Yavatmal Maharashtra Latitude : 19°50' 54.36" to N 19°54' 57.17" N Longitude :79°05'24" to 79°07'34.02" E SOI Toposheet – 56 M/1
5.	Address for correspondence a. Address of concerned Project Chief Engineer (with Pin Code, Email & Telephone/ Telex/ Fax Numbers) & Address of Executive Project Engineer / Manager (with pin code/fax numbers and email)	Office of Sub Area Manager, Mungoli PO. Sakhara (Kolgaon), Ta: Wani, Dist: Yavatmal - 445307 (M.S) Contact No. – 7999375552 Email – waniarea.environdept@gmail.com Mr. P. P Karmakar, Sub Area Manager, Mungoli Sub Area PO. Sakhara (Kolgaon), Ta: Wani, Dist: Yavatmal - 445307 (M.S) Contact No. – 7999375552 Email – waniarea.environdept@gmail.com
6.	Salient features a. Of the Project b. Of the Environmental Management Plan	a. Opencast Coal Mining project with production capacity of 5.25 MTPA b. Budget allocation made for Environment Pollution Control Measure (as per RPR 11.11.2020) is for Rs. 740.00 Lakhs and an additional provision of Rs. 3.3573 crores against CER have been made.

7.	<p>Break up of the Project area</p> <p>a. Submergence Area: Forest & Non Forest</p> <p>b. Others</p>	<p>a. NA</p> <p>b. Land acquisition details are given below:</p> <p style="text-align: center;">Land acquired within Mining lease area</p> <table border="1" data-bbox="597 348 1479 1094"> <thead> <tr> <th>Sr. No.</th> <th>Act</th> <th>Village</th> <th>Tenancy</th> <th>Govt</th> <th>Forest</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1</td> <td rowspan="4">CBA Act 1957, Section 9 - vide SO no. 124(E) dtd. 07.02.1990</td> <td>Matholi</td> <td rowspan="4">498.3</td> <td rowspan="4">39.92</td> <td rowspan="4">0</td> <td>51.23</td> </tr> <tr> <td>Mungoli</td> <td>91.33</td> </tr> <tr> <td>Sakhara</td> <td>326.84</td> </tr> <tr> <td>Kolgaon</td> <td>68.82</td> </tr> <tr> <td rowspan="3">2</td> <td rowspan="3">Section 9 - vide SO no. 406 dtd. 28.01.1997</td> <td>Mungoli</td> <td rowspan="3">228.29</td> <td rowspan="3">21.19</td> <td rowspan="3">0</td> <td>157.48</td> </tr> <tr> <td>Mungoli</td> <td>67.04</td> </tr> <tr> <td>Matholi</td> <td>24.96</td> </tr> <tr> <td rowspan="5">3</td> <td rowspan="5">CBA Act 1957, Section 9 - SO no. 1210(E) dtd. 23.03.2016</td> <td>Shivani</td> <td>140.06</td> <td>2.83</td> <td>0</td> <td>142.89</td> </tr> <tr> <td>Mungoli</td> <td>69.62</td> <td>5.66</td> <td>0</td> <td>75.28</td> </tr> <tr> <td>Sakhara</td> <td>67.72</td> <td>1.34</td> <td>0</td> <td>69.06</td> </tr> <tr> <td>Kolgaon</td> <td>34.75</td> <td>0</td> <td>0</td> <td>34.75</td> </tr> <tr> <td>Matholi</td> <td>6.74</td> <td>0</td> <td>0</td> <td>6.74</td> </tr> <tr> <td>4</td> <td>CBA Act 1957, Section 9 - SO no. 2673(E) dtd. 18.08.2017</td> <td>Kolgaon</td> <td>115.09</td> <td>11.79</td> <td>0</td> <td>126.88</td> </tr> <tr> <td>5</td> <td>Direct Purchase</td> <td></td> <td>2.37</td> <td>0</td> <td>0</td> <td>2.37</td> </tr> <tr> <td></td> <td>Total</td> <td></td> <td>1160.57</td> <td>82.73</td> <td>0</td> <td>1245.67</td> </tr> </tbody> </table> <p style="text-align: center;">Land acquired outside Mining lease area for rehabilitation</p> <table border="1" data-bbox="597 1163 1479 1304"> <thead> <tr> <th>Sr. No.</th> <th>Act</th> <th>Village</th> <th>Tenancy</th> <th>Govt</th> <th>Forest</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Direct Purchase</td> <td>Kurli</td> <td>5.18</td> <td>0</td> <td>0</td> <td>5.18</td> </tr> <tr> <td></td> <td>Total</td> <td></td> <td>5.18</td> <td>0</td> <td>0</td> <td>5.18</td> </tr> </tbody> </table>	Sr. No.	Act	Village	Tenancy	Govt	Forest	Total	1	CBA Act 1957, Section 9 - vide SO no. 124(E) dtd. 07.02.1990	Matholi	498.3	39.92	0	51.23	Mungoli	91.33	Sakhara	326.84	Kolgaon	68.82	2	Section 9 - vide SO no. 406 dtd. 28.01.1997	Mungoli	228.29	21.19	0	157.48	Mungoli	67.04	Matholi	24.96	3	CBA Act 1957, Section 9 - SO no. 1210(E) dtd. 23.03.2016	Shivani	140.06	2.83	0	142.89	Mungoli	69.62	5.66	0	75.28	Sakhara	67.72	1.34	0	69.06	Kolgaon	34.75	0	0	34.75	Matholi	6.74	0	0	6.74	4	CBA Act 1957, Section 9 - SO no. 2673(E) dtd. 18.08.2017	Kolgaon	115.09	11.79	0	126.88	5	Direct Purchase		2.37	0	0	2.37		Total		1160.57	82.73	0	1245.67	Sr. No.	Act	Village	Tenancy	Govt	Forest	Total	1	Direct Purchase	Kurli	5.18	0	0	5.18		Total		5.18	0	0	5.18
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Ok	<p>a. Total Plot Area</p> <p>b. Built - Up Area (Including Road)</p> <p>c. Open Space available</p> <p>d. Green belt area</p>	<p>Land acquired within mining lease area under CBA Act 1957- 1245.67 Ha</p> <p>Land acquired outside mining lease area – 5.18 Ha (Kurli) – Rehabilitation site of Mungoli Village</p> <p>Land as per EC – 1267.55 Ha (1255.55 Ha within in ML & 12.00 Ha outside ML)</p> <p>698.17 Ha</p> <p>423.67 Ha</p> <p>123.83 Ha</p>																																																																																																				
8.	<p>Break up of the Project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units & both</p>	<p>Status of Mungoli Village rehabilitation:</p> <p>TILR survey, NGO survey and PWD valuation of households have been completed. House compensation bill for Rs. 37.70 Crores against 649 structures of Mungoli village is approved by competent authority of WCL HQ. Rehabilitation Action Plan (RAP) has been approved by R&R</p>																																																																																																				

	<p>dwelling units & agricultural land & landless laborers/artisan</p> <p>a. SC, ST/Adivasis b. Others</p> <p>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, if a survey carried out gives details and years of survey.)</p>	<p>committee under the chairmanship of collector Yavatmal. The approved RAP has been approved by WCL HQ.</p> <p>Rehab site for rehabilitation of Mungoli village admeasuring 5.18 Ha at Kurli village has been acquired through direct purchase. The layout plan of rehab site has been approved by Town planning & further demarcation of layout by TILR has been completed. The rehabilitation will be completed by Dec 2025.</p>																											
9.	<p>Financial Details</p> <p>a. Project costs as originally planned & subsequent revised estimates and the year of price reference.</p> <p>b. Allocations made for Environmental Management Plan with item wise & year wise breakup.</p> <p>c. Benefit Cost Ratio / Internal rate of Return and the year of assessment.</p> <p>d. Whether (c) includes the cost of Environmental Management as shown in the above.</p> <p>e. Actual expenditure incurred on the Project so far</p> <p>f. Actual expenditure incurred on the Environmental Management Plan so far</p>	<p>a. Project Report Capital Investment cost – Rs. 498.4176 Crores as per approved Project Report 18.11.2015.</p> <p>Capital Investment (as per RPR 11.11.2020) - Rs. 851.60 Cr</p> <p>b. Allocation made for Environment Pollution Control Measure (as per RPR 11.11.2020) is for Rs. 740.00 Lakhs and an additional provision of Rs. 3.3573 crores against CER has been made.</p> <p>c. IRR% at 85 % production level – 13.30%</p> <p>d. Yes</p> <p>e. Capital Investment (as on 31.03.2024) – Rs. 763.63 Crores</p> <p>f. Expenditure for last five year for environmental protection including works like Tree plantation, Consent fees, Hazardous waste disposal, Effluent treatment plant, Sewage treatment plant and misc. environmental works</p> <table border="1" data-bbox="651 1331 1227 1661"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>Amount (in lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2016 – 17</td> <td>188.62</td> </tr> <tr> <td>2</td> <td>2017 – 18</td> <td>127.39</td> </tr> <tr> <td>3</td> <td>2018 - 19</td> <td>112.55</td> </tr> <tr> <td>4</td> <td>2019 - 20</td> <td>174.52</td> </tr> <tr> <td>5.</td> <td>2020 - 21</td> <td>171.06</td> </tr> <tr> <td>6.</td> <td>2021 - 22</td> <td>276.91</td> </tr> <tr> <td>7.</td> <td>2022 - 23</td> <td>360.15</td> </tr> <tr> <td>8.</td> <td>2023 - 24</td> <td>328.12</td> </tr> </tbody> </table> <p><u>Capital expenditure during FY 2017-18:</u></p> <p>1. Scientific designing, supplying, installation & commissioning with AMC for one year of mist spray fugitive dust suppression system at 2 nos. CHP at Mungoli – Rs. 50.76 Lakhs</p>	Sr. No.	Year	Amount (in lakhs)	1	2016 – 17	188.62	2	2017 – 18	127.39	3	2018 - 19	112.55	4	2019 - 20	174.52	5.	2020 - 21	171.06	6.	2021 - 22	276.91	7.	2022 - 23	360.15	8.	2023 - 24	328.12
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		<p><u>Capital expenditure during FY 2018-19:</u></p> <ol style="list-style-type: none"> 1. Supply , installation and commissioning of CAAQMS at Mungoli OC – Rs. 42.85 lakhs <p><u>Capital expenditure during FY 2019-20:</u></p> <ol style="list-style-type: none"> 1. Construction of CAAQMS room – Rs. 12.53 lakhs 2. Procurement of 2 Nos. Ac for CAAQMS room – Rs. 0.66 lakhs <p><u>Capital expenditure during FY 2021-22:</u></p> <ol style="list-style-type: none"> 1. Procurement of ground water level monitoring system without Telemetry at Mungoli OC – Rs. 51000.00 2. Procurement of ground water level monitoring system with Telemetry at Mungoli OC- Rs. 52500.00 3. Installation of piezometer by construction of borewell at Mungoli OC – Rs. 1445003.00 <p><u>Capital expenditure during FY 2022-23:</u></p> <ol style="list-style-type: none"> 1. Procurement of Truck mounted mist Cannon – Rs. 34.10 lakhs <p><u>Capital expenditure during FY 2023-24:</u></p> <ol style="list-style-type: none"> 1. Procurement of 10 Nos. Trolley mounted mist cannon – Rs. 67.40 lakhs 2. Construction of sedimentation tank – Rs. 11.79 Lakhs
10.	<p>Forest land requirement</p> <ol style="list-style-type: none"> a. The status of approval for diversion of Forestland for non-forestry use b. The Status of clearing felling c. The status of compensatory Afforestation programme in the light of actual field experience 	<ol style="list-style-type: none"> a. NA, as no forest land is involved b. NIL c. NA
11.	<p>The status of clear felling in non-forest areas (such as submergence area of reservoir, Approach roads), if any with quantitative information</p>	<p>NIL</p>
12.	<p>Status of construction</p> <ol style="list-style-type: none"> a. Date of commencement 	<ol style="list-style-type: none"> a. Originally Mungoli Opencast mine started from January 1995. Approved Project Report dtd. 18.11.2015, Public hearing conducted on 12.02.2019 at Kailash nagar township for additional

	(Actual and/or Planned) b. Date of completion (Actual and/or Planned)	land for Mungoli Nirguda Deep Extn OC and EC obtained on 26.02.2020 vide Ref No. J-11015/299/2010-IA. II(M) dtd. 26.02.2020 for capacity 4.375 MTPA. With further enhanced capacity 5.25 MTPA Mungoli Nirguda extension Deep OC started from FY 2022-23. b. Life of mine as per EC -FY 2026-27,
13.	Reasons for the delay if the project is yet to start	No Delay
14.	Dates of site visits a. The dates on which the Project was monitored by Regional Office on previous occasions, if any b. Date of site visit for this monitoring Report	Mungoli OC mine was inspected by Dr. E. Arockia Lenin, Scientist – C, MoEF&CC Regional Office, Nagpur on dtd. 26.06.2019.
15.	Details of correspondence with project authorities for obtaining action plan / information on status of compliance to safeguards other than the routine letters for logistic support for site visit. (The monitoring report may obtain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently)	Last six monthly compliance report for the period April 2023 to September 2023 was submitted on 01/12/2023

A
20/12/2023
SAM Mungoli OC

WCL Wani Area

(63)

EC Compliance report of Expansion of Mungoli Nirguda Extension Deep OC for increase in production from 4.375 MTPA to 5.25 MTPA within mine lease area of 1267.55 Ha

Ref No. J-11015/299/2010-IA.II(M) dtd. 11.01.2022

Sr. No.	Condition	Compliance as on 31/03/2024
4 (i)	All previous Environmental Clearance dated 30 th March, 2011 and 26 th February, 2020 issued by Ministry for this project shall be applicable along with these conditions.	Previous Environmental Clearance has been issued to Mungoli OC mine vide Reference No. J-11015/299/2010-IA.II(M) dtd. 30 th March 2011 and J-11015/299/2010-IA.II(M) 26 th February 2020. All the applicable previous EC conditions of this mine are being complied along with present EC conditions.
(ii)	PP shall obtain No Objections Certificated from Central Ground Water Authority and Consent to Establish/ Operate (for proposed expansion)	<p>CGWA NOC has been secured for Mungoli OC Expansion mine vide NOC no. CGWA/NOC/MIN/ORIG/2020/7435 with a validity from 25.02.2020 to 24.02.2022. Further 1st renewal application has been submitted and CGWA has approved the quantum of 16437 m3/day from 25/02/2022 to 24/02/2024 (NOC copy awaited). Now application for 2nd renewal for quantum 17276.00 m3/day from 25/02/2024 to 24/02/2026 (Copy enclosed).</p> <p>CTE for 5.25 MTPA capacity has been obtained vide Format 1.0/CAC/UAN No. MPCB – CONSENT – 0000128352/CE/2211000729 dtd. 10/11/2022 (Copy enclosed).</p> <p>CTO for 5.25 MTPA capacity has been obtained vide Format 1.0/CAC/UAN No. MPCB – CONSENT – 0000166201/CE/2307001620 dtd. 26/07/2023 valid till 31/03/2024 (Copy enclosed). Further application for plain renewal of CTO is applied vide UAN No. MPCB-CONSENT-0000196453 dtd. 30/01/2024 for period 01/04/2024 to 31/03/2025.</p>
(iii)	PP shall apply for further expansion in capacity (if any) only after implementation of inpit conveyor system and silo loading till railway system and accordingly no further expansion will be considered by EAC.	<p>Agreed and noted.</p> <p>Further application for second phase EC production capacity enhancement by 20% i.e. from 5.25 MTPA to 6.125 MTPA (i.e Initial application was made for total 40% EC enhancement from 4.375 MTPA to 6.125 MTPA- 1st phase EC production capacity increased for 20% i.e. 4.375 MTPA to 5.25 MTPA) will done after installation of Silo loading system.</p>
(iv)	PP shall submit a third party assessment of EC Compliance shall be undertaken once in three years through agency like ICFRI/ NEERI/ IIT or any other expert agency	Third party assessment of EC compliance (Copy enclosed) has been done by NEERI on 23/03/2023 for EC granted vide Ref No. J-11015/299/2010-IA.II (M) dtd. 11.01.2022.

	identified by the Ministry to Ministry's Regional Office.	
(v)	PP shall use only surface miners for the proposed expansion capacity.	Surface miner has been commissioned from January 2023 with proposed yearly capacity of 3 MTPA (max). Before commissioning of surface miner coal production didn't exceed 4.375 MTPA (previous EC capacity). After commissioning of surface miner, in FY 2023-24 production of 5.25 MTPA has been done.
(vi)	PP shall transport coal by road only for two years from the date of issue of this letter and accordingly transportation through in-pit conveyor system and by silo loading at Railway siding should be installed (as proposed) within 2 years.	<p>The work order for construction of Railway Siding was awarded to RITES with date of commencement of 15.01.2021 with proposed capital investment of Rs 218.31 Crore. The work of construction of Silo Loading system was awarded on 16.02.2022 to contractor M/s Hamtek Technologies India Private Limited with capital investment of Rs 252.61 Crore.</p> <p>The construction of Railway Siding and Silo loading could not be completed within the time limit of contract due to site constraint, removal of overburden, Covid restriction, rainfall, availability of labour with contractor etc.</p> <p>At present the physical progress for work of Railway Siding is 38% and Silo loading system is 27% till 08.03.2024. The tentative timeline for commissioning of Railway Siding is proposed to be June, 2025. Thus this EC condition has been applied for amendment and the proposed amendment is given below:</p> <p><i>"PP shall transport coal by road till June'2025 and accordingly transportation through off-pit conveyor system and by silo loading at Railway siding should be installed by June'2025".</i></p> <p>At present coal is being transported to Ghugus Railway siding by road mode. After construction of silo and railway siding at Mungoli, coal transportation will be shifted to silo and railway siding at Mungoli.</p>
(vii)	PP to install 1 more continuous ambient air quality monitoring station at suitable locations preferably village side in consultation of SPCB. The real time data so generated shall be uploaded on company website and linked to website of CPCB/SPCB. In addition data should also be displayed digitally at entry and exit gate of time lease area for public display.	<p>At present, one number Continuous Ambient Air Quality Monitoring System is installed in consultation with Maharashtra Pollution Control Board, Chandrapur at downwind side of mine, near Kolgaon Checkpost, near Kolgaon village, having Latitude - 19°52'16"N and Longitude-79°6'43"E. The system is linked with MPCB online portal having URL https://onlinecems.ecmpcb.in and data is displayed on screen at the site.</p> <p>In addition to existing system another CAAQMS has been procured and getting installed at Mungoli Transit Guest House campus which is adjacent to Sakhara village. The location has been fixed in consultation with MPCB. After installation and commissioning this CAAQMS will also be linked with MPCB server.</p>
(viii)	PP to replace the existing water sprinkle within two year with Fog cannon mist sprayer as these sprinkler create mud puddles. Also 10 Nos. of additional Fog	<p>At present very few rainguns are installed at haul road and CHP. In 2 Nos. CHP, already 120 Nos. misting nozzles exists.</p> <p>Additional 10 Nos. of trolley mounted mist cannons have been installed and commissioned at mine premises for dust suppression at Mungoli OC mine.</p>

	cannon (mist sprayer) shall be installed to reduce the impact of air pollution at dust generation sources such as haul road, CHP within 1 year from the date of issue of EC letter.	In addition, 1 No. new Truck Mounted Mist cannon has also been commissioned at Mungoli Nirguda Deep OC Mine.
(ix)	PP shall Install Wind breaker/shield arrangement atleast of 10 mtrs all along the railway siding for reducing the dust propagation in up wind direction.	After completion of construction of New Railway siding at Mungoli OC, wind breaker/ shield will be installed.
(x)	PP shall install sand/aggregate segregation plant from Overburden (OB) for suitable capacity to extract sand and construction aggregate within 2 years of issue of this letter.	<p>The installation of sand segregation plant is not found to be feasible in this project due to low sand content in the overburden and lack of marketability of sand the local market.</p> <p>As per the sand analysis test report, the percentage of sand in overburden is 61.3%. The Sand Segregation plant could be installed in Overburden having high sand content (more than 65%) in order to have techno-commercial viability of segregation from the plant. There are no underground mines in jurisdiction of Wani Area where the segregated sand can be utilized for the purpose of Sand Stowing. The local market of sand is highly dynamic and sale price of sand is also very volatile. Thus, the liquidation/selling of sand in local open market becomes very competitive with the dealers /operators of Sand Ghats.</p> <p>The sand content in OB is less than 65% and there is no utility of produced sand, so installation of SSP is not found to be viable.</p> <p>Thus EC amendment for removal of specific condition (x) is being applied.</p>
(xi)	PP to conduct riverine ecosystem study of the Wardha and Penganga River from reputed Institutes and help state government in revitalization of the rivers as both are tributaries of Godavari River.	The work of Preparation of Riverine/ Riparine Ecosystem Conservation and Management Plan for Wardha and Penganga rivers with respect to Mungoli Nirguda Extension Deep OC Mine has been awarded to ICFRE vide WCL/WA/AGM/ENV/FL/2023-24/123 dtd. 09/01/2024 (Copy enclosed). One season study at site has already been conducted from 02/03/2024 to 10/03/2024.
(xii)	PP needs to address the issues raised in public hearing and demands to local development with budgetary provision with time bound action plan.	Noted. Most of the issues raised during public hearing has been addressed, remaining are under process, and few are ongoing in nature.
(xiii)	Top soil should be stored separately at marked area	Top soil dumps are separately stored at earmarked area. As per project report all the top soil will be rehandled in phased

	and necessary vegetation shall be maintained to avoid any entrainment of dust.	manner and will be spread across external OB dump and internal dump.
(xiv)	Active OB Dump should not be kept barren/open and should be covered by temporary grass to avoid air born of particles.	Grassing of Active OB dump is regular activity and is done on regular basis.
(xv)	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 worker having some ailments like BP, remedial/habitual smoking, etc shall be undertaken once in six months and necessary remedial/preventive measure 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	Occupational health check up is done in Rajiv Ratan Central Hospital, Ghugus where team of inter disciplinary specialist exists. Initial medical examination (IME) and periodical medical examination (PME) of all the workmen once in 5 years as per the statue and workers above 55 year, once in a year is conducted. Moreover, regular health check-ups are also conducted. Mungoli Nirguda Expansion Deep OC mine has a dispensary with all requisite paramedical facilities.
(xvi)	Quality of polluted water generated from the operations which include COD and acid mine drainage and metal contamination shall be monitored along with TDS, DO, TSS. The monitored data shall be uploaded on the website of the company as well as displayed at the site in public domain.	Effluent discharges i.e. mine water discharge and workshop effluent are being monitored on fortnightly basis for pH, COD, TSS and O & G as per Coal Industry Standards vide GSR 742 (E) dated 25th September, 2000. As per results mine water in not acidic and all other parameters are well within prescribed limit. (Copy enclosed) The monitored data is displayed in official website of WCL i.e. www.westerncoal.in .
(xvii)	PP to conduct need based	Every year need based assessment of CSR activities at nearby

	<p>assessment survey of the area to for in order to decide the activities to be carried under the CSR and to provide detail of the activity carried out with adequate budgetary provision and time bound action plan.</p>	<p>villages of mine is done in consultation with local village sarpanch and submitted for approval to WCL HQ. The activities are approved from WCL HQ and budgetary provisions are provided.</p> <p style="text-align: center;">Expenditure incurred in CSR- Wani Area</p> <table border="1" data-bbox="686 415 1372 932"> <thead> <tr> <th data-bbox="686 415 943 516">Year</th> <th data-bbox="943 415 1372 516">Expenditure incurred on CSR activities (Rupees in lakhs)</th> </tr> </thead> <tbody> <tr><td data-bbox="686 516 943 552">2012-2013</td><td data-bbox="943 516 1372 552">116.07</td></tr> <tr><td data-bbox="686 552 943 588">2013-2014</td><td data-bbox="943 552 1372 588">146.80</td></tr> <tr><td data-bbox="686 588 943 623">2014-2015</td><td data-bbox="943 588 1372 623">167.02</td></tr> <tr><td data-bbox="686 623 943 659">2015-2016</td><td data-bbox="943 623 1372 659">45.28</td></tr> <tr><td data-bbox="686 659 943 695">2016-2017</td><td data-bbox="943 659 1372 695">61.04</td></tr> <tr><td data-bbox="686 695 943 730">2017-2018</td><td data-bbox="943 695 1372 730">35.44</td></tr> <tr><td data-bbox="686 730 943 766">2018-2019</td><td data-bbox="943 730 1372 766">31.80</td></tr> <tr><td data-bbox="686 766 943 802">2019-2020</td><td data-bbox="943 766 1372 802">45.98</td></tr> <tr><td data-bbox="686 802 943 837">2020-2021</td><td data-bbox="943 802 1372 837">37.42</td></tr> <tr><td data-bbox="686 837 943 873">2021-2022</td><td data-bbox="943 837 1372 873">19.71</td></tr> <tr><td data-bbox="686 873 943 909">2022-2023</td><td data-bbox="943 873 1372 909">58.32</td></tr> <tr><td data-bbox="686 909 943 932">2023-2024</td><td data-bbox="943 909 1372 932">94.40</td></tr> </tbody> </table>	Year	Expenditure incurred on CSR activities (Rupees in lakhs)	2012-2013	116.07	2013-2014	146.80	2014-2015	167.02	2015-2016	45.28	2016-2017	61.04	2017-2018	35.44	2018-2019	31.80	2019-2020	45.98	2020-2021	37.42	2021-2022	19.71	2022-2023	58.32	2023-2024	94.40
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(xviii)	<p>PP must provide safety measures and relief fund to the areas or nearby villages affected by the flood.</p>	<p>Safety measures like provision of embankment is done in mine. Embankment is built in mine circumference. Embankment is constructed as per DGMS guidelines and approved mining plan. Embankment of 11.266 km length has been constructed with top width of 30m, bottom width of 60 m and average 10m height, as per DGMS norms.</p> <p>Moreover activities are taken up before monsoon like making garland drain (8.00 km garland drain with 1.5 m width and 1.0 m depth exists) and catch drain (6.5 km length having 4.0 m width and 1.5 m height exists), so that mine water during rain is fed into nallah which finally meets the river.</p>																										
(xix)	<p>PP shall develop 2 water harvesting pond near the villages of suitable area as suggested by Gram Panchayat within 1 year.</p>	<p>Project has already developed recharge ponds near Sakhara village and check post no1 of Mungoli OC mine.</p>																										
(xx)	<p>PP to maintain the topped haul road properly to minimized the dust emission. PP to also develop pucca roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone.</p>	<p>The mine roads are properly maintained and regularly strengthened. At critical patches roads are concreted. Roads in the nearby villages are constructed under CSR work based on requirement received from villages.</p>																										

(xxi)	PP to take action drive on removal of thorny bushes in consent with expert in the area where the villagers are facing problem as wild animals are attracted due to these thorny bushes.	No such complaints related to problems being faced by wild animals due to thorny bushes have been submitted to the office of Sub Area Manager, Mungoli. But whenever such problems will be encountered in future, action will be taken immediately.
(xxii)	Persons of nearby villages shall be given training on livelihood and skill development to make them employable with its proper records.	<p>A total of 352 Nos. of Skill Development Training like Welding & Fabrication, Electrician, Agro based, Beauty Parlour, Solar System, Basic Tailoring Course, and Electrical Gadget Repairing Course have been Provided To PAP and Rural Youth At Wani Area Under CSR.</p> <p>WCL HQ have tied up with institutions CIPET, Chandrapur, Maharashtra and Ashok Leyland Driver Training and Research Centre, Chindwara, MP which provide accredited courses which can help in providing employment opportunities to rural youth. Under this, awareness and mobilization activity was done in villages to inform youths about this programme. In addition to this people from nearby villages are employed in contractual mining and civil works.</p> <p>At present 16 Nos. contractual people are working in civil activities, 554 Nos. in mining activities and 60 Nos. in another department</p>
(xxiii)	PP shall conduct slope stability study and install slope stability radar monitoring to monitor slope movement at OB Dump.	<p>The “Scientific Study of Mungoli OCM for Method of working, including bench Geometry, Ultimate pit slope, Dump slope and Monitoring of slope stability”, under Reg. 106 of CMR 2017, has been conducted by BIT Mesra and documented in the Scientific study report of May 2020.</p> <p>Stability of OB dumping is checked through visual inspection, by total station and real time slope monitoring instrument. Regular monitoring (in every 10 days) of other dumps are done by inserting survey pegs and measuring the level by total station. The readings are noted and records are maintained.</p>
(xxiv)	PP to plant 1,00,000 nos. of native trees with broad leaves along the villages (Borgaon, Takli, Chincholi, Kolgaon and Tilodhi villages) and 50,000 no of trees along the transportation route to prevent the effect of air pollution in 2 years. A proper Mechanism to be put in place for massive plantation by hiring independent expert agency in 2 years for proper survival of trees.	<p>36,000 Nos. of saplings have been planted between Penganga River and embankment (location is towards Borgaon Village) in 2021.</p> <p>In 2022, further plantation of 15,000 Nos. of saplings have been done in same location.</p> <p>In 2023, 25,000 Nos. of plantation have been done on embankment near mine boundary.</p> <p>Plantation is done by independent plantation agency, Madhya Pradesh Rajya Van Vikas Nigam Limited comprising of total agreement period of 5 years (including plantation and maintenance).</p> <p>Already along coal transportation thick plantation exists.</p>
(xxv)	Persons of nearby villages shall be given training on livelihood and skill	Already replied in Sr. No. (xxii)

	development to make them employable.											
(xxvi)	PP to install solar lights along the road used for transportation of coal to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.	At present LED lights are installed at coal transportation road. In Wani Area, at Urjagram office - 76 KW and at Rajiv Ratan Central Hospital - 160 KW of Roof top Solar Panel has been installed. Installation of solar lights in rural area in buffer zone of Mungoli OC is in process.										
(xxvii)	PP also to provide drinking water facilities like installation of RO with proper water supply pipe fittings to nearby rural areas and also to install hand pumps by seeking consent from panchayat of the villages located within the study area of 10 km radius buffer zone within two years.	At present RO plant has already been provided at Sakhara village. Hand pumps have also been provided to nearby villages under CSR.										
(xxvii i)	PP to take proper care of health of R & R villages and a 24 X 7 helpline call facility should be provided to such area and also to nearby villages for assisting any medical aid and ambulance facility.	Mine has dedicated ambulance which is for utilization of mine and nearby villages. Health camps are being conducted in nearby villages with our company doctors and medical staff for improving awareness and health consciousness among people . Frequent special camps at Rajiv Ratan Central Hospital Ghugus have been conducted related Blood Sugar test Camp, Diabetes & Sickle Cell test, Diagnostic & Blood Test, Laparoscopic TT Camp, Eye check up camp, Bone Disease checkup and Cancer Detection camp. CSR clinic is provided at Area Hospital, Rajiv Ratan Central Hospital for PAF. CSR day is scheduled on Monday and Thursday. An average of 1100 Nos. of people from project affected families from nearby villages of mines of Wani Area gets treated in the hospital every month. The details of medical camps conducted in nearby villages of mines of Wani Area and Rajiv Ratan Central Hospital Ghugus is tabulated below:										
<table border="1"> <thead> <tr> <th>S.N.</th> <th>NAME OF VILLAGE/ LOCATION</th> <th>NO. OF BENEFICIARIES</th> <th>DATE</th> <th>NAME OF CAMP</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>RRCH HOSPITAL</td> <td>35</td> <td>11.02.2024</td> <td>BLOOD DONATION</td> </tr> </tbody> </table>			S.N.	NAME OF VILLAGE/ LOCATION	NO. OF BENEFICIARIES	DATE	NAME OF CAMP	1	RRCH HOSPITAL	35	11.02.2024	BLOOD DONATION
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1	RRCH HOSPITAL	35	11.02.2024	BLOOD DONATION								

					CAMP	
		2	RRCH HOSPITAL	59	01.04.2023	CANCER AWARNEESS CHEKUP CAMP
		3	USGAON	324	23.05.2023	VILLAGE HELATH CHEKUP CAMP
		4	BELSANI	187	30.05.2023	VILLAGE HELATH CHEKUP CAMP
		5	RRCH HOSPITAL	50	25.07.2023	DIAGNOSTIC CAMP
		6	MUNGOLI	55	14.08.2023	VILLAGE HELATH CHEKUP CAMP
		7	MUNGOLI	144	23.09.2023	VILLAGE HELATH CHEKUP CAMP
		8	RRCH HOSPITAL	41	06.10.2023	EYE CHECKUP CAMP
		9	TARODA	128	27.10.2023	VILLAGE HELATH CHEKUP CAMP
		10	VIRUR	108	25.11.2023	VILLAGE HELATH CHEKUP CAMP
		11	RRCH HOSPITAL	102	26.11.2023	ORTHOPAEDIC CHEKUP CAMP
		12	RRCH HOSPITAL	52	17.12.2023	HEALTH CHECKUP CAMP
		13	RRCH HOSPITAL	35	22.03.2024	HEALTH CHECKUP CAMP
			TOTAL	1320		
(xxix)	PP should conduct epidemiology study to (analysis of the distribution, patterns and determinants of health and disease conditions in defined populations).	Noted. Epidemiology study has been conducted in Rajiv Ratan Central Hospital. (Repot enclosed)				
(xxx)	PP must ensure an emergency action plan during pandemic in order to provide assistance to the nearby villages located within the 10 km radius buffer zone (If required)	Noted. Mine has dedicated ambulance which is for utilization of mine and nearby villages. During any natural hazard like pandemic situation, assistance to the local villages is done as per requirement.				
(xxxi)	PP shall pay to farmers of	Till date no such specific case has been submitted to mine				

	agricultural land if there is any loss due to pollution/damage due to blasting activity found by concerned District Commissioner as per extent rules or norms.	official by District Commissioner. If such complaints are received then payment as per state government norms will be done to the farmers.
(xxxii)	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 hour.	For maintaining biological clock of villagers, darkness and minimal noise level during night time is followed. Illumination of mine is done as per DGMS guidelines and blasting is done only during day time.
(xxxii i)	PP should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis. Any non-compliance or infringement should be reported to the concerned authority.	Already a NABL accredited laboratory exists at CMPDI RI- IV, Nagpur, where Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters exists. Fortnightly monitoring of air, water and noise samples are done at mine and analysed in CMPDI RI- IV, Nagpur, NABL accredited laboratory.
(xxxv)	Hon'ble Supreme Court in a Writ Petition(s) Civil No. 114/2014. Common Cause vs Union of India &Ors vide its judgement dated 8th	After completion of Mining operation re-grassing of mining area will be done for making the land fit for growth of fodder, flora, fauna etc.

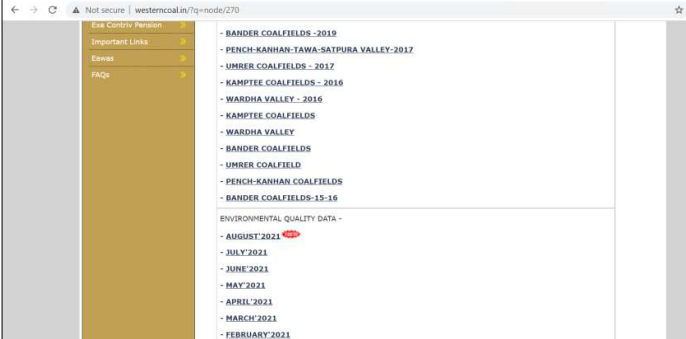
	<p>January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other 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</p> <p>Project Proponent" implementation report of the above said condition shall be sent to the Regional Office of the MoEF&CC.</p>	
4.1	The grant of environmental clearance is further subject to compliance of the Standard EC condition as under.	
(a)	Statutory compliance	
(i)	The project proponent shall obtain forest clearance under the provision of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable. No forest land involved in this project.
(ii)	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Clearance from National Board for Wildlife is not applicable
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan/ Wildlife Management Plan and approved by the Chief Wildlife Warden. The	As per Flora fauna chapter of EIA EMP of Mungoli Nirguda Extn Deep OC Mine (copy enclosed) the existing flora is of least concern as per IUCN red data book. Moreover, there is no schedule I species, no threatened ecological communities and no priority ecological community. Thus no site specific conservation plan/ wildlife management

	<p>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).</p>	<p>plan is needed.</p>
(iv)	<p>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.</p>	<p>CTE for 5.25 MTPA capacity has been obtained vide Format 1.0/CAC/UAN No. MPCB – CONSENT – 0000128352/CE/2211000729 dtd. 10/11/2022 (Copy enclosed). CTO for 5.25 MTPA capacity has been obtained vide Format 1.0/CAC/UAN No. MPCB – CONSENT – 0000166201/CE/2307001620 dtd. 26/07/2023 valid till 31/03/2024 (Copy enclosed). Further application for plain renewal of CTO is applied vide UAN No. MPCB-CONSENT-0000196453 dtd. 30/01/2024 for period 01/04/2024 to 31/03/2025.</p>
(v)	<p>The project proponent shall obtain the necessary permission from the Central Ground Water Authority.</p>	<p>CGWA NOC has been secured for Mungoli OC Expansion mine vide NOC no. CGWA/NOC/MIN/ORIG/2020/7435 with a validity from 25.02.2020 to 24.02.2022. Further 1st renewal application has been submitted and CGWA has approved the quantum of 16437 m³/day from 25/02/2022 to 24/02/2024 (NOC copy awaited). Now application for 2nd renewal for quantum 17276.00 m³/day from 25/02/2024 to 24/02/2026 (Copy enclosed).</p>
(vi)	<p>Solid/hazardous waste generated in the mines needs to addressed in accordance to use Solid Waste Management Rules, 2016/ Hazardous & Others Waste Management Rules, 2016.</p>	<p>Hazardous waste is disposed off as per Hazardous & other waste (Management & Transboundary movement) Rule 2016 and is covered under Consent to Operate granted by Maharashtra Pollution Control Board. The disposal is carried out through approved agency of MPCB in Common Hazardous Waste Treatment Facility (CHWTSDF), Butibori, Nagpur.</p>
(b)	Air quality monitoring and preservation	
(i)	<p>Continuous ambient air quality monitoring station as prescribes in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM10, PM2.5, SO2 and NOx. Location of the</p>	<p>At present, one number Continuous Ambient Air Quality Monitoring System is installed in consultation with Maharashtra Pollution Control Board, Chandrapur at downwind side of mine, near Kolgaon Checkpost, near Kolgaon village, having Latitude - 19°52'16"N and Longitude-79°6'43"E. The system is linked with MPCB online portal having URL https://onlinecems.ecmpcb.in and data is displayed on screen at the site.</p>

	<p>stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring station as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc to be carried out at least once in six months.</p>	<p>In addition to existing system another CAAQMS has been procured and getting installed at Mungoli Transit Guest House campus which is adjacent to Sakhara village. The location has been fixed in consultation with MPCB. After installation and commissioning this CAAQMS will also be linked with MPCB server.</p> <p>Monitoring of heavy metals are being done once in six months and the results are being online submitted via email id waniarea.environtdept@gmail.com to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur.</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 25th September, 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>	<p>Ambient Air Quality Monitoring is done at core zone as per Coal Industry Standards notified vide GSR 742 (E) dated 25th September, 2000 and as amended and buffer zone as per National Ambient Air Quality Standard and amendment 2000, on fortnightly basis. Monitoring of heavy metals are being done once in six months.</p> <p>Both the results are being online submitted via email id waniarea.environtdept@gmail.com on dtd. 10/05/2024 to Regional office MPCB Chandrapur and Regional Office MoEF&CC Nagpur</p>
(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 emission from all sources shall be controlled regularly. It shall be ensured that the</p>	<p>Railway siding is being bought at mine pit head. As such road transportation will continue until the construction of Railway siding is completed. Moreover coal will be loaded via silo attached with conveyor belt from CHP.</p> <p>Transportation of coal is done by Tarpaulin covered trucks. In order to control fugitive dust emission along road, 2 Nos. 12 KL water tanker is deployed on coal transportation road. 2 Nos. 28 KL water tanker and 4 Nos. 20 KL water tanker is deployed in haul roads and mine premises.</p> <p>Location wise fixed sprinklers is given as following:</p> <ol style="list-style-type: none"> 1. Coal transportation road (CHP– 4 Nos., Coal Stockyard– 4 Nos. and CTR – 8 Nos.) – 16 Nos. 2. Haul road – 12 Nos. 3. Around CHP - 9 Nos. 4. Inside CHP – Total 120 mist spray nozzles at 2 Nos. CHP

	<p>Ambient Air Quality parameters conform to the norms prescribe by the Central/State Pollution Control Board.</p>	<p>1 Nos. Truck mounted mist spray system has been procured and commissioned in the mine.</p> <p>10 Nos. trolley mounted mist cannons have been procured and installed at various locations in mine for dust suppression at Mungoli OC mine.</p> <p>Fugitive dust emission is monitored near Security checkpoint at Mungoli OC mine.</p> <p>There is no standard limit for fugitive dust emission still from the above data it is evident that results are well within GSR 742 (E), 25/09/2000 coal standards (SPM - 600 ug/m³ & PM₁₀ - 300ug/m³).</p> <p>Ambient Air Quality is monitored based on NAAQS, 2009 at 2 Nos. buffer location i.e. at Kailashnagar township and tubewell near sakhara. Ambient air quality is being monitored on fortnightly basis by CMPDIL, RI – IV, Nagpur and reports are being sent to Regional Office MoEF&CC and Regional Office Maharashtra Pollution Control Board, Chandrapur. The results are sent to Regional Officer, MoEF&CC Nagpur, Regional Officer MPCB Chandrapur and Sub Regional Officer Chandrapur MPCB through Email (sent from email id waniarea.environdept@gmail.com on dtd. 10/05/2024)</p>
(iv).	<p>The transportation of coal shall be carried out as per the provision and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</p>	<p>As per mining plan transportation of coal is proposed from Railway siding at Mungoli Nirguda OC mine premises. Presently, the construction work of proposed new railway siding is being carried out by RITES. Meanwhile, the coal is being dispatched through Ghugus Railway Siding.</p> <p>The existing coal transportation road does not pass through any village. Moreover, continuous dust suppression is being done in this coal transportation road by sprinkling water from 12 KL mobile water tanker.</p>
(v)	<p>Vehicular emission shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the</p>	<p>Vehicular emission is kept under control by routine maintenance of vehicles used in operation. Tippers carrying coal are optimally loaded and covered by tarpaulins. The company vehicles namely jeeps, School buses, Ambulances etc. are having valid PUC certificate from RTO authorized agencies.</p>

	authorized pollution testing centres.	
(vi)	Coal stock pile/crusher/feeder and breaker material transfer points shall invariable be provided with dust system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drill shall be wet operated or fitted with dust extractors.	<p>Mining is done by Shovel dumper method. Wet drill/ dust extractor equipped drills are used for drilling hole for charging of explosive. Controlled blasting is practiced to ensure minimal dust and sound generation.</p> <p>Coal is then transferred to Coal Handling Plant (CHP) where coal crushing takes place. To control fugitive dust emission, CHP is completely enclosed with Galvanised Iron sheets in the in pit belt conveyor. At coal feeding point/ crusher, the hopper is completely enclosed from all the three sides with GI sheets and rubber sheet is placed where truck unloads the coal.</p> <p>The coal feeding point, conveyor belt and unloading point of CHP is provided with 60 Number of mist sprinklers at each CHP.</p> <p>Additionally 9 Nos. rainguns are also installed in and around CHP.</p> <p>Surface miner has been deployed from January 2023, thus reducing the work done by CHP, as coal obtained from surface miner is of -100mm size.</p>
(vii)	Coal handling plant shall be operated with effective control measure w.r.t various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigation such parameters.	<p>All necessary measures are taken to control dust emission at Coal Handling Plant. CHP is completely enclosed with Galvanised Iron sheets in the in pit belt conveyor. At coal feeding point/ crusher, the hopper is completely enclosed from all the three sides with GI sheets and rubber sheet is placed where truck unloads the coal.</p> <p>The coal feeding point, conveyor belt and unloading point of CHP is provided with 60 Number of mist sprinklers at each CHP.</p> <p>Additionally 9 Nos. rainguns are also installed in and around CHP.</p> <p>Moreover surface miner has been deployed thus reducing the crushing load of CHP.</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 Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board.	Effluent discharges i.e. mine water discharge and workshop effluent is being monitored fortnightly in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended.
(ii).	The monitoring data shall be uploaded on the company's website and displayed at the	Monitoring data is being regularly uploaded at WCL official website www.westerncoal.in and also displayed at the project site i.e Entrance of Sub Area Manager's Office.

	<p>project site at a suitable location. The circular No. J-20012/1/2006-IA.11 (M) dated 27th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	 <p>The screenshot shows a web browser window with the URL 'westerncoal.in/?q=node/270'. The page displays a list of coalfields under the heading 'ENVIRONMENTAL QUALITY DATA -'. The list includes: BANDER COALFIELDS - 2019, PENCH-KANHAN-TAWA-SATPURA VALLEY-2017, UMBER COALFIELDS - 2017, KAMPTEE COALFIELDS - 2016, WARDHA VALLEY - 2016, KAMPTEE COALFIELDS, WARDHA VALLEY, BANDER COALFIELDS, UMBER COALFIELD, PENCH-KANHAN COALFIELDS, BANDER COALFIELDS-15-16, and ENVIRONMENTAL QUALITY DATA - AUGUST'2021, JULY'2021, JUNE'2021, MAY'2021, APRIL'2021, MARCH'2021, and FEBRUARY'2021.</p>
(iii).	<p>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 construction new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, post-monsoon and winter. The ground water quality shall be monitoring once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.</p>	<p>Regular monitoring of ground water level from existing wells at 34 locations of Buffer zone is being done by third party M/s. Anacon Laboratories Pvt. Ltd. Nagpur, for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons. Quality of groundwater as per IS: 10500 : 2012 is being analyzed for 34 locations of Buffer zone once in a year. The groundwater level and water quality data is submitted to Regional office of ministry, CGWA and MPCB. Copy of Ground water level monitoring report for the period Nov 2023 (Post Monsoon) & Jan 2024 (Winter) and Ground water quality analysis report for the year has been forwarded via. Email to rdcr_cgwb@nic.in on dtd. 10/05/2024 from waniarea.environtdept@gmail.com. As per ground water NOC two new piezometers have been installed at mine.</p>
(iv)	<p>Monitoring water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change/Regional Office.</p>	<p>Monitoring of water quality at upstream and downstream of Wardha river is being done once in six month and the results are submitted to MoEF&CC.</p>
(v)	<p>Ground water, excluding mine water, shall not be used for mining operation. Rainwater harvesting shall be implemented for conservation and augmentation of ground</p>	<p>Ground water, excluding mine water is not being used for any activity within the mine. Rooftop Rainwater harvesting structure is already existing at Sub Area Office Mungoli with dimension: Rooftop area – 16.80m x 12.70m and connected to tubewell of depth - 50m, dia. 300 mm</p>

	water resources.	
(vi)	<p>Catch and/or garland drains and siltation ponds in adequate number 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 dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized 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>6.5 km of catch drains of 4.0 m x 2.0 m size have been provided all along periphery of existing OB dump to arrest silt and sediment flow from the respective dump sites.</p> <p>8.00 Km of garland drain exists along the mine boundary with 1m depth and 1.5m width.</p> <p>Mine water after initial sedimentation in the mine sump is pumped out & collected into 2 Nos. RCC sedimentation pond for further settlement each having dimension 20m length x 3.5m width and 0.8m depth.</p> <p>Approx. 2350 m³/d mine water is used for dust suppression and fire-fighting.</p> <p>At Toe of dump around 3.6 Km of retaining wall has been constructed with 0.2 m thickness and 0.9 m height.</p> <p>Overburden dump is properly compacted by grader and slope is maintained to avoid any sort of dump failure during monsoon.</p> <p>Already 36,000 Nos. of saplings have been planted between Penganga river and embankment slope in 2021. In 2022, further plantation of 15,000 Nos. of saplings have been done in same location. In 2023, 25000 nos of plantation have been done on embankment near mine boundary. Plantation is done by independent plantation agency, Madhya Pradesh Rajya Van Vikas Nigam Limited comprising of total agreement period of 5 years (including plantation and maintenance).</p>
vii	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project	Roof top rainwater harvesting structure (Rooftop Rainwater harvesting structure is already existing at Sub Area Office Mungoli with dimension: Rooftop area – 16.80m x 12.70m and connected to tubewell of 50m dia. 300 mm), kutchha

	<p>authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards)</p>	<p>pond and mine water storage sump exists which acts as a source for augmentation of ground water. Drinking water is supplied to Mungoli – 5 m³/d and Matholi & Bhimnager – 5m³/d regularly and other villages as per demand.</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 the Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time. Adequate ETP/ STP needs to be provided.</p>	<p>Mine water after initial sedimentation in the mine sump is pumped out & collected into 2 Nos. RCC sedimentation pond for further settlement each having dimension 20m length x 3.5m width and 0.8m depth. Further one more Sedimentation tank is proposed to be constructed in FY 2023-24</p> <p>The Workshop ETP of 150 KLD capacity is provided. ETP works on zero discharge basis where water collected from ETP is treated and reused. ETP is having oil and grease trap, oil which is recovered is disposed off centrally to approved recyclers/ re-processor through Area Stores. ETP sludge is sent to CHWTSDF at Butibori.</p> <p>The effluent discharge (mine waste water and ETP discharge) is monitored on fortnightly basis in terms of the parameters notified under the Coal Industry Standards vide GSR 742 (E) dated 25.9.2000. It is observed that all parameters are well within the permissible limits</p>
(ix)	<p>The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz. watering the mine area, roads, green belt development etc. The drain shall be regularly desilted particularly after monsoon and maintained properly.</p>	<p>The mine water after sedimentation is used for dust suppression and fire-fighting. For dust suppression and fire-fighting approx. 2350 m³/d water is used.</p> <p>The garland drains, catch drain and other drains are regularly cleaned as a pre-monsoon work and maintained properly.</p>
(x)	<p>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the</p>	<p>As indicated in previous points, the mining is being carried out as per the approved Mining Plan following all the provisions of Mines Act, 1952 and allied subordinate legislation as well as the DGM Circulars.</p> <p>The mine is circumferenced with embankment. Embankment all along the river boundary is constructed as per DGMS guidelines and approved mining plan. Embankment of 11.266 km length has been constructed with top width of 30m, bottom width of 60 m and average 10m height, as per DGMS norms.</p> <p>The rainwater is collected at the toe of OB dumps in catch drains and mine periphery is surrounded by garland drains. Both drains empties in the Wardha river.</p>

	concerned State/ Gol Authority. The construction of embankment to prevent any danger against inrush of as per the permission of DGMS or any other authority as prescribed by the law.	6.5 km of catch drains of 4.0 m x 2.0 m size have been provided all along periphery of existing OB dump to arrest silt and sediment flow from the respective dump sites. 8.00 Km of garland drain exists along the mine boundary with 1m depth and 1.5m width. There is no proposal for diversion of any river in the approved mining plan and thus no diversion have been done
(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.	The work of Preparation of Riverine/ Riparian Ecosystem Conservation and Management Plan for Wardha and Penganga rivers with respect to Mungoli Nirguda Extension Deep OC Mine has been awarded to ICFRE vide WCL/WA/AGM/ENV/FL/2023-24/123 dtd. 09/01/2024 (Copy enclosed). One season study at site has already been conducted from 02/03/2024 to 10/03/2024.
	(d) Noise and Vibration monitoring and prevention	
(i)	Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for user to be conducted. Progress in usage of such accessories to be monitored.	Noise levels are being monitored and all the necessary measure are made to reduce noise pollution in the mines. The required personnels are being given with Personal protective equipment (PPE) like ear plugs/muffs. Safety equipment like dust mask, safety jacket, helmet, mining shoe and gumboot is are issued every year.
(ii)	Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc, as per the guidelines prescribed by the DGMS.	Controlled blasting is practiced in the mine as per permission of Department of mines (DGMS) and all the precautions are taken to control the ground vibration to arrest the fly rocks and boulders and regular monitoring is done with the help of vibrometer.

(iii)	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.	The noise level survey is being done every month as per DGMS guidelines.
	(e) Mining Plan	
(i)	Mining shall be carried out under strict adherence to provisions of the mines Act 1952 and subordinate legislation made there-under as applicable.	Mining operation are being carried out and will continue to be carried out as per provisions of Mines act 1952 and no deviation is being made during operations. No production is done beyond EC capacity.
(ii)	Mining shall be carried out as per the approved mining plan (including mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Mining operations is being carried as per approved mining plan by abiding all the mining rules and DGMS guidelines issued time to time. No production is done beyond EC capacity.
(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 and thus Forest Clearance is not applicable.
(iv)	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Efforts are being made for judicious use of energy and fuel consumption. Electrical equipment installed like tubelight and flood street lights are power saving in nature. LED fittings are provided in the mine to conserve energy. In Wani Area, at Urjagram office - 76 KW and at Rajiv Ratan Central Hospital - 160 KW of Roof top Solar Panel has been installed
	(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	Restoration/Reclamation Monitoring of all mine of WCL having more than 5 million cum. (Coal+OB) capacity is being done by Satellite and the data for the year 2023 is available in the website of WCL www.westerncoal.in and copy is enclosed.

	MOEFCC/Regional Office (RO).																									
(ii)	<p>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 27th August, 2009 and subsequent amendments.</p>	<p>At present mine is active and progressive mine closure activities are being executed. After closure of mine the final mine void depth, backfilling and afforestation will be done as per approved Mine closure plan. All the mining work as being carried out at present shall be continued.</p> <p>Mine Closure Plan is a part of Project Report/ Mining plan and a mine closure plan was approved by the WCL Board along with opening of a corpus fund / account having account no. 08973161002782 was opened at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on date 31.03.2024 Rs 982104049.17 (Including the principal along with the interest).</p> <p>In this regard, it may be worthwhile to mention that progressive claim Mine Closure activities for first five years cycle (period 2011-12 to 2015-16) as per the MoC guidelines has already been reimbursed by CCO vide letter no. CC/MCPS/Mungoli OC/ WCL/19_20/565 dtd. 30/03/2020 for Rs. 604995350.00</p>																								
(iii)	<p>The entire excavated area, backfilled, 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-s-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.</p>	<p>At present mine is active and progressive mine closure activities are being executed. After closure of mine the final mine void depth, backfilling and afforestation will be done as per approved Mine closure plan. All the mining work as being carried out at present shall be continued.</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>As per EC (in Ha)</th> <th>As on 31/03/2024 (in Ha)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Excavated Area</td> <td>513.47</td> <td>400.961</td> </tr> <tr> <td>2.</td> <td>Backfilled area</td> <td>224.12</td> <td>264.617 (Partial backfilling)</td> </tr> <tr> <td>3.</td> <td>External OB dumping (including top soil)</td> <td>194.89</td> <td>306.238 (Rehandling of BC soil will be done)</td> </tr> <tr> <td>4.</td> <td>Afforestation</td> <td>434.79</td> <td>123.90</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sr. No.	Description	As per EC (in Ha)	As on 31/03/2024 (in Ha)	1.	Excavated Area	513.47	400.961	2.	Backfilled area	224.12	264.617 (Partial backfilling)	3.	External OB dumping (including top soil)	194.89	306.238 (Rehandling of BC soil will be done)	4.	Afforestation	434.79	123.90				
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(iv)	<p>Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provision contained in clause</p>	<p>At present, the mine is in operation and as per the CIL’s policy drawn after due deliberation with MoEF&CC, only abandoned mine voids are being considered for filling up with fly ash.</p>																								

	<p>(i) and (ii) of subparagraph (8) of fly ash notification issue vide SO 2804 (E) dated 3rd 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 MoEF&CC, CPCB and SPCB.</p>	
(v)	<p>Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized. The top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in live with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.</p>	<p>The top soil is being dumped separately at earmarked site and this soil will be used while blanketing and for creation of vegetation site after backfilling is done, in accordance with mine closure plan.</p> <p>Plantation will be carried out in OB dump when dumps will become inactive.</p>
(vi)	<p>The project proponent shall make necessary alternative</p>	<p>No grazing land is involved as per land use details. Only government land and tenancy land has been acquired for this</p>

	arrangements, if grazing land is involved in core zone, in consultation with the State government to provide alternate area for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	project.																																																				
	g) Green Belt																																																					
(i)	The project proponent shall take all precautionary measure during mining operation for conservation and projection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	There is no endangered flora/fauna as per baseline data generated for Flora and Fauna in Environment Impact Assessment / Environment Management Plan which was submitted to MoEF&CC and subsequently approval was accorded. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna.																																																				
(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 March 2024, 309570 Nos. of plants have been planted in 123.83 Ha of land. Details are given below: <table border="1" data-bbox="685 1136 1333 1860"> <thead> <tr> <th>Sr.No.</th> <th>Plantation</th> <th>Nos. of Plants</th> <th>Area (in Ha)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>In OB dumps and backfilled area (OB dump- 24.4 Ha, 60944 Nos., Backfilled area – 12.48 Ha, 31200 Nos.)</td> <td>92144</td> <td>36.88</td> </tr> <tr> <td>2</td> <td>Mine lease Area</td> <td></td> <td></td> </tr> <tr> <td>a)</td> <td>Avenue</td> <td>10300</td> <td>4.12</td> </tr> <tr> <td>b)</td> <td>Along Transportation road</td> <td>1500</td> <td>0.6</td> </tr> <tr> <td>c)</td> <td>Rationalization area</td> <td>14629</td> <td>5.85</td> </tr> <tr> <td>d)</td> <td>In & around CHP</td> <td>8769</td> <td>3.5</td> </tr> <tr> <td>e)</td> <td>In & around W/S</td> <td>14930</td> <td>5.97</td> </tr> <tr> <td>f)</td> <td>In & around infrastructure</td> <td>10000</td> <td>4</td> </tr> <tr> <td>g)</td> <td>Along the Arterial road</td> <td>26520</td> <td>10.6</td> </tr> <tr> <td>h)</td> <td>OB Wardha river embankment</td> <td>22750</td> <td>9.1</td> </tr> <tr> <td>i)</td> <td>River side (plain area)</td> <td>6000</td> <td>2.4</td> </tr> <tr> <td>j)</td> <td>Plain area</td> <td>26028</td> <td>10.41</td> </tr> </tbody> </table>	Sr.No.	Plantation	Nos. of Plants	Area (in Ha)	1	In OB dumps and backfilled area (OB dump- 24.4 Ha, 60944 Nos., Backfilled area – 12.48 Ha, 31200 Nos.)	92144	36.88	2	Mine lease Area			a)	Avenue	10300	4.12	b)	Along Transportation road	1500	0.6	c)	Rationalization area	14629	5.85	d)	In & around CHP	8769	3.5	e)	In & around W/S	14930	5.97	f)	In & around infrastructure	10000	4	g)	Along the Arterial road	26520	10.6	h)	OB Wardha river embankment	22750	9.1	i)	River side (plain area)	6000	2.4	j)	Plain area	26028	10.41
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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 the ministry & it's RO on six monthly basis.	Illumination of mine is done as per DGMS guidelines.																						
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personal engaged in the project and maintain record accordingly as per the provision of the Mines Rules, 1955 and DGMS circulars. Besides regular periodic health check-up, 20 % of the personnel identified from workshop engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	<p>Initial medical examination (IME) is done for the workers. Moreover, regular health checkups through periodical medical examination (PME) of all the workmen once in 5 years as per the statue and workers above 55 years of age medical check-up is being done, once in a year is conducted.</p> <p>Details of PME and IME conducted is tabulated below:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>PME (in Nos.)</th> <th>Cont IME (in Nos.)</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>446</td> <td>204</td> </tr> <tr> <td>2020</td> <td>453</td> <td>480</td> </tr> <tr> <td>2021</td> <td>310</td> <td>336</td> </tr> <tr> <td>2022</td> <td>291</td> <td>267</td> </tr> <tr> <td>2023</td> <td>288</td> <td>688</td> </tr> <tr> <td>2024 (Till April)</td> <td>241</td> <td>269</td> </tr> </tbody> </table>		Year	PME (in Nos.)	Cont IME (in Nos.)	2019	446	204	2020	453	480	2021	310	336	2022	291	267	2023	288	688	2024 (Till April)	241	269
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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.	<p>All the personnel including outsourcing employees are being provided with protective respiratory devices and adequate training and information on safety and health is given at VTC.</p> <p>Training to both departmental and contractual workers are provided on regular basis. Moreover refresher and need based training is also imparted. The details of training imparted is given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Calend er year</th> <th colspan="2">Training</th> <th rowspan="2">Refresh er Training</th> <th rowspan="2">Need based special</th> <th rowspan="2">Total people trained</th> </tr> <tr> <th>Dept.</th> <th>Cont.</th> </tr> </thead> <tbody> </tbody> </table>		Calend er year	Training		Refresh er Training	Need based special	Total people trained	Dept.	Cont.													
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					trainin g	(in Nos.)	
		2016	2	198	202	164	566
		2017	4	148	227	121	500
		2018	5	241	140	175	561
		2019	9	282	153	231	675
		2020	71	526	85	114	796
		2021	26	534	136	138	834
		2022	1	202	167	86	456
		2023	4	398	157	137	696
(iv)	Implementation of the action plan on the issue raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measure as per as the action plan submitted with budgetary provision during the public hearing.: Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	<p>Noted.</p> <p>Most of the issues raised during public hearing has been addressed, remaining are under process, and few are ongoing in nature. Land oustees has being compensated and employment has been given to all the eligible persons as per R&R policy. All the guidelines will be adhered from time to time framed by Government body in future.</p> <p>Land compensation and R&R benefits are provided to the eligible land owners in accordance with the R&R Policy, 2012 of Coal India Ltd.</p>					
(v)	The project proponent shall follow the mitigation measure provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 th October, 2014, titled "Impact of mining activities on habitations-issued related to the mining project wherein habitation and village are the part of mine lease areas or habitations and villages are surrounded by the mine lease area'.	<p>The project proponent is adhering to the mitigation measures as per the guideline specific under OM No.Z-11013/5712014- IA.I1 (M) dated 29th October, 2014. Some of the mitigative measures, to avoid adverse impact of mining operation in case of nearby habitation, are listed below:</p> <ol style="list-style-type: none"> 1. To arrest wash off from rain, 6.5 km of catch drains of 4.0 m x 2.0 m size have been provided all along periphery of existing OB dump to arrest silt and sediment flow from the respective dump sites. 8.00 Km of garland drain exists along the mine boundary with 1m depth and 1.5m width. Mine water after initial sedimentation in the mine sump is pumped out & collected into 2 Nos. RCC sedimentation pond for further settlement each having dimension 20m length x 3.5m width and 0.8m depth. At toe of dump around 440 m of retaining wall has been constructed with 0.2m thick with 0.9 m height. 2. Impact of mining on ground water - Natural water bodies flowing in and around the villages are not disturbed. Water requirement of nearby villages are met on daily basis. Drinking water is supplied to Mungoli – 5 m3/d and Matholi & Bhimnager – 5m3/d regularly and other villages as per demand. Ground water level from existing wells at 20 					

		<p>locations of Buffer zone is done four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons as per EC condition. Quality of groundwater as per IS: 10500 : 2012 is being analyzed for 5 nearby affected villages located in Buffer zone namely Sakhra, Nakoda, Khaigaon, Kolgaon & Abhai.. Roof top rainwater harvesting structure at SAM office (Area – 16.80m x 12.70m and connected to tubewell of 50m dia. 300 mm), kutcha pond and mine water storage sump exists which acts as a source for augmentation of ground water.</p> <p>3. For maintaining biological clock of villagers, darkness and minimal noise level during night time is followed. Illumination of mine is done as per DGMS guidelines and blasting is done during day time.</p> <p>4. Controlled blasting is practiced in the mine as per permission of DGMS and all the precautions are taken to control the ground vibration to arrest the fly rocks and boulders and regular monitoring is done with the help of vibrometer.</p> <p>5. Continuous wetting of haul roads is done by 28KL and 20 KL water tanker. At the entry of haul road 12 Nos. fixed sprinklers are provided. In coal transportation road dust suppression by 12 KL water tanker is done.</p> <p>6. The existing coal transportation road does not pass through any village.</p> <p>7. Regular CSR activities are undertaken. Land compensation and R&R benefits are provided to the eligible land owners in accordance with the R&R Policy, 2012 of Coal India Ltd.</p>
	<p>(i) Corporate Environment Responsibility</p>	
<p>(i)</p>	<p>The company shall have a well laid down environment policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and of to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlif</p>	<p>Coal India Limited (CIL) has formulated a comprehensive Environment Policy only in March 2012, followed by a revised policy in December 2018 approved by CIL Board in its 377th Meeting held on 20th December'2018 for implementation at CIL and its subsidiaries.</p> <p>This Corporate Environment Policy 2018 of CIL was subsequently discussed in the 309th Meeting of the Board of Directors of WCL held on 04.03.2019. After deliberation, WCL Board has adopted the policy in principle for implementation in WCL and the same was communicated vide Ref: WCL/BD/SECTT/BM-309/2019/267 dated 15.03.2019.</p> <p>For monitoring of EC/FC norms & conditions, an online MDMS portal (Mine Data Management System) of MoC, Gol is already existing where in the environmental data namely, air quality, water quality, noise quality data are uploaded and regularly updated. In addition to that, compliance report of each condition of EC is also uploaded in the portal and the</p>

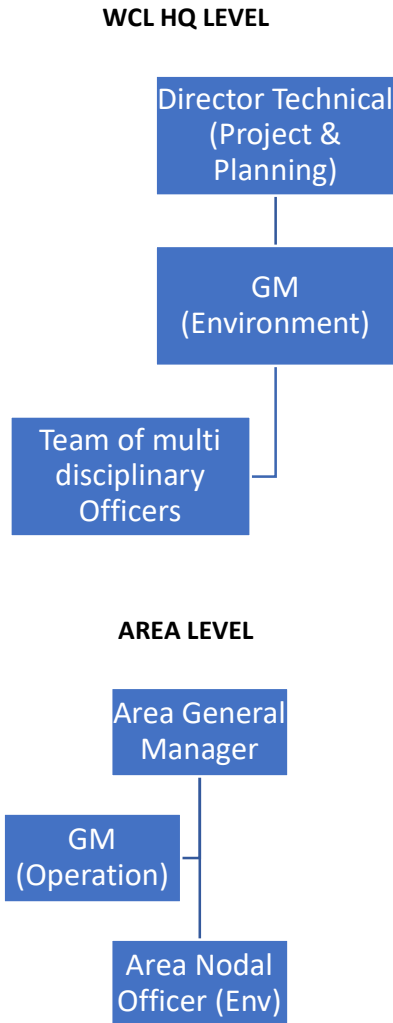
e norms/conditions and/or shareholders/stake holders.


same is also updated every six months (screenshot of website is placed below). This management system has the access of CIL & MoC.

SN	Projects / Clusters	EC-FC Compliance	Environmental Monitoring
20	KOLAR PIMPRI	Click for Data Entry or View!	Click for Data Entry or view!
21	MAKARDHOKRA - I OC	Click for Data Entry or View!	Click for Data Entry or view!
22	MUNGOLI NIRGUDA DEEP OC	Click for Data Entry or View!	Click for Data Entry or view!
23	NEW MAJRI SEC I A & IIA	Click for Data Entry or View!	Click for Data Entry or view!
24	NEW MAJRI UG TO OC	Click for Data Entry or View!	Click for Data Entry or view!
25	NILJAI EXPN. DEEP	Click for Data Entry or View!	Click for Data Entry or view!

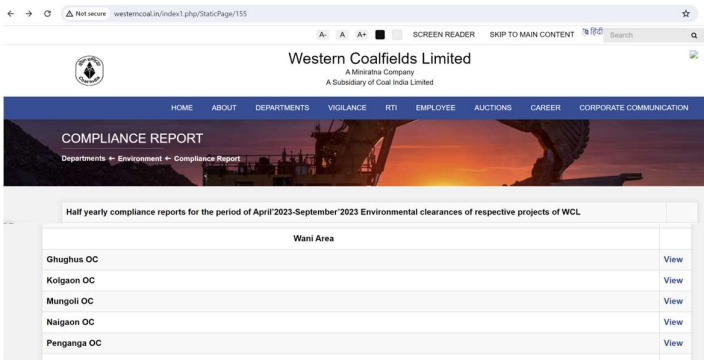
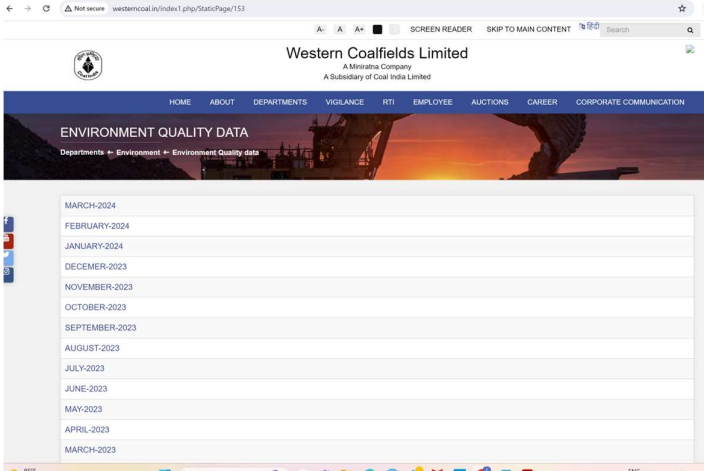
(ii) A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.

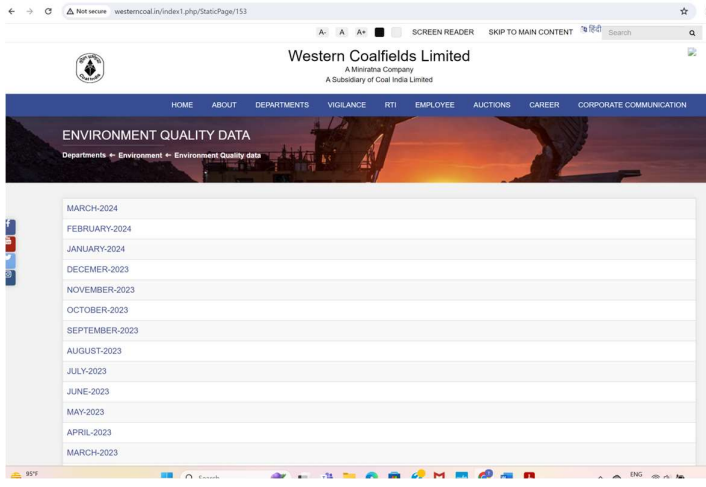
To deal with environmental issues and for ensuring compliance with environmental clearance conditions, environment cell is established at project level, area level and WCL HQ level.



		<p>SUB AREA LEVEL</p> 																											
(iii)	<p>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measure shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>	<p>The responsibility of implementing EMP and environmental conditions is of Project Proponent. Capital activities related to Environment Management is taken up by Project proponent as mentioned in Project report.</p> <p>The approved capital & revenue budget for carrying out EMP works are kept in separate account and utilized for environment protection measures only.</p> <p>The head-wise expenditure incurred on environmental protection works will be submitted to RO, MoEF& CC along with half yearly compliance reports.</p> <p>Expenditure for last several years for environmental protection including works like Tree plantation, Consent fees, Hazardous waste disposal, Effluent treatment plant, Sewage treatment plant and misc. environmental works</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Sr. No.</th> <th>Year</th> <th>Amount (in lakhs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2016 – 17</td> <td>188.62</td> </tr> <tr> <td>2</td> <td>2017 – 18</td> <td>127.39</td> </tr> <tr> <td>3</td> <td>2018 - 19</td> <td>112.55</td> </tr> <tr> <td>4</td> <td>2019 - 20</td> <td>174.52</td> </tr> <tr> <td>5.</td> <td>2020 - 21</td> <td>171.06</td> </tr> <tr> <td>6.</td> <td>2021 - 22</td> <td>276.91</td> </tr> <tr> <td>7.</td> <td>2022 - 23</td> <td>360.15</td> </tr> <tr> <td>8.</td> <td>2023 - 24</td> <td>328.12</td> </tr> </tbody> </table>	Sr. No.	Year	Amount (in lakhs)	1	2016 – 17	188.62	2	2017 – 18	127.39	3	2018 - 19	112.55	4	2019 - 20	174.52	5.	2020 - 21	171.06	6.	2021 - 22	276.91	7.	2022 - 23	360.15	8.	2023 - 24	328.12
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(v)	<p>Self- environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</p>	<p>Self-internal environmental audit system has been setup in the company recently. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status every month through a formatted checklist. Inter-area inspection to review compliance status is being done on quarterly basis. The report of the inspection is put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL.</p> <p>Third party assessment of EC compliance (Copy enclosed) has been done by NEERI on 23/03/2023 for EC granted vide Ref No. J-11015/299/2010-IA.II (M) dtd. 11.01.2022.</p>																											

	(j) Miscellaneous	
(i)	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspaper of the District or State of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</p>	<p>The Environment Clearance was made public by publishing in two local newspaper within seven days (EC date – 11/01/2022 & Paper publication date – 16/01/2022), given below:</p> <ol style="list-style-type: none"> 1. Indian express (English) – 16/01/2022  <ol style="list-style-type: none"> 2. Loksatta (Marathi)– 16/01/2022  <p>And is copy of EC was uploaded in westerncoal.in website, screenshot of website is placed below:</p>  
(ii)	<p>The copies of the environmental clearance</p>	<p>The copy of Environmental clearance has been submitted to the Head of local bodies, Panchayat and Municipal bodies.</p>

	<p>shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.</p>	
(iii)	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.</p>	<p>Status of compliance of environmental clearance condition including results of monitoring data is regularly being displayed on the website of Western Coalfields Limited.</p>  
(iv)	<p>The project proponent shall monitor the criteria pollutants level namely: PM10, SO2, NOx (ambient levels) or critical sectoral – parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the websites of the company.</p>	<p>SPM, PM₁₀, PM_{2.5}, SO_x, NO_x is being monitored regularly on fortnightly basis. Data is displayed at project site i.e. Entrance of Sub Area Managers Office.</p> <p>1 No. Continuous Ambient Air Quality Monitoring System is installed in addition to the regular monitoring station in consultation with Maharashtra Pollution Control Board, Chandrapur and data is displayed at screen at Kolgaon checkpost.</p> <p>The data is also displayed in company's official website</p>

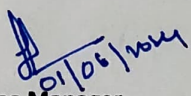
		<p>www.westerncoal.in and the screenshot of website is placed below:</p>  <p>The screenshot shows the website for Western Coalfields Limited, a subsidiary of Coal India Limited. The page is titled 'ENVIRONMENT QUALITY DATA' and features a navigation menu with options like HOME, ABOUT, DEPARTMENTS, VIGILANCE, RTI, EMPLOYEE, AUCTIONS, CAREER, and CORPORATE COMMUNICATION. Below the navigation, there is a list of months for data entry, ranging from MARCH-2024 at the top to MARCH-2023 at the bottom. The website is displayed in a browser window with a search bar and various utility icons.</p>
(v)	<p>The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environmental, Forest and Climate Change at environment clearance portal.</p>	<p>Noted.</p>
(vi)	<p>The project proponents shall follow the mitigation measure provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29th October, 2014, titled "Impact of mining activities on habitation-issues related to the mining project wherein habitations and village are the part of mine lease areas or habitations and village are surrounded by the mine lease area.</p>	<p>The project proponent is adhering to the mitigation measures as per the guideline specific under OM No.Z-11013/5712014- IA.I1 (M) dated 29th October, 2014. Some of the mitigative measures, to avoid adverse impact of mining operation in case of nearby habitation, are listed below:</p> <ol style="list-style-type: none"> 1. To arrest wash off from rain, 6.5 km of catch drains of 4.0 m x 2.0 m size have been provided all along periphery of existing OB dump to arrest silt and sediment flow from the respective dump sites. 8.00 Km of garland drain exists along the mine boundary with 1m depth and 1.5m width. Mine water after initial sedimentation in the mine sump is pumped out & collected into 2 Nos. RCC sedimentation pond for further settlement each having dimension 20m length x 3.5m width and 0.8m depth. Further one more Sedimentation tank is proposed to be constructed in FY 2023-24. At toe of dump around 440 m of retaining wall has been constructed with 0.2m thick with 0.9 m height. 2. Impact of mining on ground water - Natural water bodies flowing in and around the villages are not disturbed. Water requirement of nearby villages are met on daily basis. Drinking water is supplied to Mungoli – 5 m3/d and Matholi&Bhimnager – 5m3/d regularly and other villages as

		<p>per demand. Ground water level from existing wells at 20 locations of Buffer zone is done four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January) seasons as per EC condition. Quality of groundwater as per IS: 10500 : 2012 is being analyzed for 5 nearby affected villages located in Buffer zone namely Sakhra, Nakoda, Khaigaon, Kolgaon & Abhai.. Roof top rainwater harvesting structure at SAM office (Area – 16.80m x 12.70m and connected to tubewell of 50m dia. 300 mm), kutch pond and mine water storage sump exists which acts as a source for augmentation of ground water.</p> <p>3. For maintaining biological clock of villagers, darkness and minimal noise level during night time is followed. Illumination of mine is done as per DGMS guidelines and blasting is done during day time.</p> <p>4. Controlled blasting is practiced in the mine as per permission of DGMS and all the precautions are taken to control the ground vibration to arrest the fly rocks and boulders and regular monitoring is done with the help of vibrometer.</p> <p>5. Continuous wetting of haul roads is done by 28KL and 20 KL water tanker. At the entry of haul road 12 Nos. fixed sprinklers are provided. In coal transportation road dust suppression by 12 KL water tanker is done.</p> <p>6. The existing coal transportation road does not pass through any village.</p> <p>7. Regular CSR activities are undertaken. Land compensation and R&R benefits are provided to the eligible land owners in accordance with the R&R Policy, 2012 of Coal India Ltd.</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 Environmental (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environment Statement Form- V for FY 2022-23 was submitted on 21/09/2023 on online portal of Maharashtra Pollution Control Board website and also uploaded in Western Coalfields Limited official website.
(viii)	The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.	Consent to Establish and Operate from MPCB for increased production capacity 5.25 MTPA have been received. Before start of mining operation for enhanced quantity, Regional Office of the MOEF&CC will be informed.
(ix)	The project authorities must strictly adhere to the stipulation made by the State Pollution Control	Stipulation made by State Pollution Control Board is being followed.

	Board and the State Government.	
(x)	The project proponents shall abide by all the commitments and recommendation made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	The project proponent abides by all the commitments and recommendations made in EIA/EMP report, presented in the presentation to EAC and on all the issues raised during hearing; and implement it in letter and spirit.
(xi)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environmental, Forests and Climate Change.	Noted. No further expansion or modification in the mine will be carried out without prior approval of the Ministry of Environmental, Forests and Climate Change.
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment (Protection) Act, 1986.	Noted
(xiii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfaction.	Noted
(xiv)	The Ministry reserves the right to stipulate additional condition if found necessary. The Company in a time bound manner shall implement these condition.	Noted. In a time bound manner additional conditions, if provided by ministry, will be implemented.
(xv)	The Regional Office of this Ministry shall monitor compliance of the stipulate conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted. Full cooperation is being extended to all the statutory Govt. bodies by furnishing the requisite data/ information/ monitoring reports, as per the requirement.
(xvi)	The above condition shall be enforced, inter-alia under the provisions of the Water (prevention & Control of	Noted

	<p>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.</p>	
5.	<p>The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issue raised during hearing shall also be implemented in letter and spirit.</p>	Noted
6.	<p>The proponent shall obtain all necessary clearance / approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.</p>	Noted
7.	<p>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.</p>	Noted
8.	<p>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</p>	Noted

	s at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No. 114/2014 in the matter of 'Common Cause Vs Union of India & others.	
9.	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponents through their respective Department of Mining & Geology, in strict compliance their Judgment of Hon'ble Supreme Court.	No illegal mining operation have been undertaken. Thus not liable for any compensation.
10.	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as application, and other statutory requirements.	Noted


 Sub Area Manager
 Mungoli Sub Area

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