

**WESTERN COALFIELDS LIMITED
(MINIRATNA COMPANY)**

**SIX MONTHLY ENVIRONMENTAL
COMPLIANCE REPORT
(From 01/04/2023 to 30/09/2023)**

IN RESPECT OF

UMRER OPEN CAST PROJECT

**UMRER SUB AREA
UMRER AREA**

Environmental Clearance Compliance Report of Umrer OC Project (4.90 MTPA) of WCL, Umrer Area as on 30/09/2023

Ref: MOEF&CC Environment Clearance Letter No. J-11015/86/2005-IA.II (M) dated 11/01/2019, J-11015/86/2005-IA.II (M) dated 06/12/2019 and J-11015/86/2005-IA.II (M) dated 15/01/2021.

A. Specific Conditions:

S.No	Compliance Condition	Status
i.	The project proponent shall collect and analyse one season data for environmental parameters and submit for consideration of the EAC before 31 st December, 2019.	Complied. The one season data for environmental parameters / one season baseline data has been collected during Pre-Monsoon Season i.e April 2019 to June 2019 by external agency M/s. IDMA Laboratories Limited, Panchkula and the analysis report is submitted to MoEF & CC on 23/09/19.
ii.	The proponent shall obtain Consent to establish from the state pollution control boards for the proposed peak capacity of 4.9 MTPA prior to commencement of the increased production.	Complied. Project was granted Consent to Operate for 4.9 MTPA from MPCB vide Consent No. Format 1.0/BO/CAC-Cell/CAC-UAN No.65263/CAC-1910000121 dt.03/10/19, which was valid up to 31/03/21(Copy Enclosed as Annexure-II). Subsequently, consent to renewal (1 st) for 4.9 MTPA has been secured from MPCB vide letter no: Format 1.0/CAC/UAN No.0000107261/CR/2211000597 dated 09/11/2022 which is valid up to 31/03/2024 (Copy Enclosed as Annexure-III).
iii.	Transportation of coal from face to coal heap shall be carried out by truck. Further, the coal transportation from coal heap to Coal Handling Plant shall be carried out through covered trucks.	Being complied. Transportation of coal from face to coal heap and coal heap to Coal Handling Plant is carried out by tippers and dumpers. All the trucks leaving the mine premises are covered with tarpaulin.
iv.	To control the production of dust at source, the crusher and in-pit belt conveyors shall be provided with mist type sprinklers.	Complied. In order to control generation of dust at source, Mist Spray Arrangement is provided at Coal Handling Plant. In addition, trolley mounted mist/fog generator is provided at CHP.
v.	Mitigative measures shall be undertaken to control dust and other fugitive emissions all	Complied. Fugitive dust emissions from all the dust generating sources

	<p>along the roads by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emissions, which would include mechanized sweeping, water sprinkling/mist spraying on haul roads and loading sites, long range misting/fogging arrangement, wind barrier wall and vertical greenery system, green belt, dust suppression arrangement at railway siding etc.</p>	<p>are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition to fixed water sprinklers & rain guns, trolley mounted mist/fog generator is provided at CHP and siding.</p> <p>Mobile Water Sprinklers are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none">• Tyre washing system is installed at main check post of Umrer Area.• 6 No. of mobile water tankers of 10-28 KL capacity are in operation.• 75 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge, dozer section and CHP, details are as follows: <table><thead><tr><th>Location</th><th>Nos. of fixed sprinklers</th></tr></thead><tbody><tr><td>Weigh bridge to workshop</td><td>14</td></tr><tr><td>CHP</td><td>10</td></tr><tr><td>Dozer section</td><td>7</td></tr><tr><td>Wharf wall</td><td>44</td></tr></tbody></table> <ul style="list-style-type: none">• Mist Spray Arrangement system (150 nozzles) is provided at CHP.• Trolley mounted mist/fog generator is provided at CHP and Siding.	Location	Nos. of fixed sprinklers	Weigh bridge to workshop	14	CHP	10	Dozer section	7	Wharf wall	44
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vi.	<p>The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 4.9 MTPA.</p>	<p>Complied.</p> <p>Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5653) which was valid till 10/07/2021. Renewal application (2nd Renewal) was submitted to CGWA through NOCAP portal, which is under process.</p> <p>Copy of NOC is enclosed as Annexure – IV.</p>										

vii.	Continuous monitoring of occupational safety and other health hazards, and the corrective actions need to be ensured.	<p>Being complied.</p> <p>For surveillance of occupation health among workers IME is being done for every employee at the time of appointment and periodic medical examination is being done once in 3 years as per statute in all the mines.</p> <p>Details of IME/PME done in last 6 years are given below:</p> <table> <tr> <th rowspan="2">Year</th><th colspan="2">No. of workers (Dept. & Cont.)</th></tr> <tr> <th>IME</th><th>PME</th></tr> <tr> <td>2017-18</td><td>121</td><td>389</td></tr> <tr> <td>2018-19</td><td>363</td><td>371</td></tr> <tr> <td>2019-20</td><td>205</td><td>313</td></tr> <tr> <td>2020-21</td><td>150</td><td>185</td></tr> <tr> <td>2021-22</td><td>117</td><td>358</td></tr> <tr> <td>2022-23</td><td>150</td><td>358</td></tr> </table>	Year	No. of workers (Dept. & Cont.)		IME	PME	2017-18	121	389	2018-19	363	371	2019-20	205	313	2020-21	150	185	2021-22	117	358	2022-23	150	358		
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viii.	Persons of nearby villages shall be given training on livelihood and skill development to make them employable.	<p>Being complied.</p> <p>Skill development training is being imparted in the villages and also in the Group VTC of Umrer Area for self-employment. Details of Skill Development programs are as follows:</p> <table> <tr> <th>Year</th><th>Training Programs</th><th>No. of beneficiaries</th></tr> <tr> <td>2016-17</td><td>Apparel designing, Beauty parlor and Electrician</td><td>85</td></tr> <tr> <td>2017-18</td><td>Office automation and Data entry operator</td><td>26</td></tr> <tr> <td>2018-19</td><td>Tailoring and Apparel designing</td><td>60</td></tr> <tr> <td>2019-20</td><td>Beauty parlor, Tailoring and Apparel designing</td><td>240</td></tr> <tr> <td>2020-21</td><td rowspan="2">Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period</td><td rowspan="2">Nil</td></tr> <tr> <td>2021-22</td></tr> <tr> <td>2022-23</td><td>Machine operator- Plastics Processing (MO-PP) and driver</td><td>45</td></tr> <tr> <td>2023-24 (Till Sep'23)</td><td>Assistant Electrician</td><td>04</td></tr> </table>	Year	Training Programs	No. of beneficiaries	2016-17	Apparel designing, Beauty parlor and Electrician	85	2017-18	Office automation and Data entry operator	26	2018-19	Tailoring and Apparel designing	60	2019-20	Beauty parlor, Tailoring and Apparel designing	240	2020-21	Not conducted due to restrictions imposed by the Govt in Covid 19 Pandemic period	Nil	2021-22	2022-23	Machine operator- Plastics Processing (MO-PP) and driver	45	2023-24 (Till Sep'23)	Assistant Electrician	04
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ix.	To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.	<p>Being complied.</p> <p>Medical camps are organized on regular basis by WCL, Umrer Area.</p> <p>Details of medical camps conducted in last 5 years are given below:</p> <table> <tr> <th>Year</th><th>No. of Medical camps</th><th>No. of Beneficiaries</th></tr> </table>	Year	No. of Medical camps	No. of Beneficiaries																						
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x.	Thick green belt of adequate width at the final boundary in	Being complied. The mine is in last phase of operation and has reached the																																																																													

	<p>the down wind direction of the project site shall be developed to mitigate/check the dust pollution.</p>	<p>quarry edge. Undisturbed area of 108.36 Ha is brought under plantation which includes plantation on vacant land, embankments, township, plantation along the roads and mine boundary.</p> <p>Thick green belt is developed all along the mine boundary to provide a buffer against dust pollution. The overall length of this green belt is approx. 9.5 kms and width ranges from 200 m to 30 m in the downwind direction.</p> <p>Details are demarcated in the mine plan enclosed as Plate – II. Plantation details are enclosed as Annexure -V.</p>
xi.	<p>Efforts shall be made for utilizing alternate source of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.</p>	<p>Complied.</p> <p>Mine discharge water is the primary source of water for all the industrial purposes. Mine water is collected in 02 nos. of sumps in the quarry area of mine (Central quarry sump = 96.158 Million gallons capacity, Eastern quarry sump = 122.69 Million gallons capacity). These sumps allow settlement of suspended particles present in water. The supernatant from these sumps is then pumped out on surface and fed into the surface sedimentation tank. This mine water is used for industrial purposes such as dust suppression, fire fighting and plantation etc.</p> <p>Domestic requirement of water is fulfilled by 02 nos. of tube well in Umrer Colony.</p> <p>As such no surface water used for any industrial or domestic purpose and thus minimizing the dependability on a single source.</p>
xii.	<p>A third party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI/NEERI/IIT or any other expert agency identified by the Ministry.</p>	<p>Being Complied.</p> <p>The third part assessment of EC compliance is being undertaken once in three years through CSIR-NEERI (Expert Agency identified by Ministry).</p> <ul style="list-style-type: none"> • FY 2019-20: The inspection has been carried out by CSIR-NEERI for assessment of EC compliance in respect of Umrer Opencast on 30.08.2019 and The third party assessment of EC compliance report has been secured from CSIR-NEERI vide its letter dated 25.09.2019. • FY 2022-23: Work for Third Party Assessment of EC compliance in respect of Umrer OC is awarded to CSIR-NEERI vide Work order no. 1325- 1336 dated 22.12.2022. The inspection has been carried out on 07/02/2023.

B. General Conditions:

S.No	Compliance Condition	Status
(a)	Mining	
i.	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there– under as applicable.	Complied. Mining is carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there– under as applicable.
ii.	No change in mining method, Calendar programme and scope of work shall be made without obtaining prior approval of the Ministry of Environment, Forest and Climate Change.	Complied. Method of mining is opencast with shovel-dumper combination. There has been no change in scope of work and production programme beyond EC. No change in technology, mining method, calendar programme and scope of working will be made without prior approval of the MOEF&CC.
iii.	Mining shall be carried out as per the approved mining plan including mine closure plan, abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	Complied. Mining is carried out as per the approved mining plan as well as by abiding to the relevant laws related to coal mining and the circulars issued by Directorate General Mines Safety (DGMS).
iv.	No mining activity shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980 and also adhering to the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 read with provisions of Indian forest act, 1927.	Not applicable as the project does not have any forest land.
(b)	Land Management and Water Conservation	
i.	Digital survey of entire lease hold area/ core zone using Satellite Remote sensing survey shall be carried out at least once in	Being complied. Digital processing of the entire lease area using Remote sensing technique is done every year by CMPDIL. Reports of which are available on WCL website. The same is submitted to Ministry of

	three years for monitoring land use pattern and report in 1:50,000 scale shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office (RO).	<p>Environment, Forest and Climate Change/ Regional Office on regular basis.</p> <p>Land Restoration / Reclamation monitoring report of Umrer OC mine based on satellite data for the year 2022 is enclosed as Annexure –VI.</p>
ii.	<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 any river/ rivulet/ pond/lake etc., shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GoI Authority.</p> <p>The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS.</p>	<p>Complied.</p> <p>The surface drainage plan considering the presence of any river/ rivulet/ pond/ lake etc., is prepared and implemented by the project proponent to withstand the peak water flow and prevent mine inundation.</p> <p>Umrer OCM was restricted on three sides by Amb River which was diverted in phased manner to extract 20.58 M.te. of coal. The diversion was completed in 2016 (Phase-IV). The Amb river was diverted in the rise side of the existing mine through non- coal bearing area as per CDO, Nasik design.</p> <p>The balance life of mine is 2 year and there will be no further change in the drainage.</p> <p>The embankment all along the river boundary is constructed as per the provision of approved Mining Plan and as per the permission of DGMS. The HFL of Amb river is 274.68 meters at railway bridge and 270.63 meters at PWD bridge above mean sea level. The height of the embankment provided along the Amb river to protect the mine along its boundary has been kept 6.00 meters above the HFL of the river. The width of embankment has been kept 30.00 m which is sufficient to protect the mine from peak flow of the river.</p>
iii.	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40m, adequate engineering interventions shall be provided for sustenance of adequate 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 purpose and shall be handled over to the respective state	<p>Being complied.</p> <p>Backfilling is being done as per the Mine Closure Plan which is approved by WCL Board and included along with EMP.</p> <p>Mine Closure Plan was approved by the WCL Board along with opening of an Escrow account, A/c no. 08973161002614 at the Oriental Bank of Commerce, Jaripataka Branch, Nagpur. The total corpus amounts available in the account as on 31/03/2023 is Rs.39,95,88,831 (Principal and interest).</p> <p>The mine is in last phase of operation and has reached the final quarry edge. Undisturbed area of 108.36 Ha is brought under plantation which includes plantation on vacant land, embankments, township, along the roads and mine boundary. Plantation is done on External OB dumps covering an area of 106.64 Ha.</p>

	government as specified in the guidelines for preparation of mine closure plan issued by the ministry of coal dated 27 th August, 2009 and subsequent amendments.	<p>Till date 63.80 ha of backfilled area has been biologically reclaimed, remaining quarry area will be backfilled to ground level and reclaimed with plantation as per EMP. 95.52 ha of decoaled void will be left as water body which will be gently sloped and upper benches stabilized with plantation.</p> <p>The details of post mining land use are as follows:</p> <table><tr><th rowspan="2">Particulars of activities</th><th colspan="5">Land use (ha)</th></tr><tr><th>Plantation</th><th>Water Body</th><th>Public use</th><th>Un Disturbed</th><th>Total</th></tr><tr><td>External OB Dump</td><td>139.52[#]</td><td>-</td><td>-</td><td>-</td><td>139.52</td></tr><tr><td>Top soil dump</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Excavation</td><td>150.0</td><td>95.52</td><td>-</td><td>116.48*</td><td>362.00</td></tr><tr><td>Built up area including Road & Township</td><td>20.0</td><td>-</td><td>-</td><td>207.69</td><td>227.69</td></tr><tr><td>Green Belt</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>Undisturbed Area</td><td>88.36</td><td>-</td><td>-</td><td>127.08</td><td>215.44</td></tr><tr><td>Total</td><td>397.88</td><td>95.52</td><td>-</td><td>451.25</td><td>944.65</td></tr></table> <p>* The 116.48 ha land will be technically reclaimed and stabilized.</p> <p>[#] The area includes 32.88 ha External Dump of Makardhokra-II OC also as per EC granted to Makardhokra-II OC dated 10th Feb, 2009.</p>	Particulars of activities	Land use (ha)					Plantation	Water Body	Public use	Un Disturbed	Total	External OB Dump	139.52 [#]	-	-	-	139.52	Top soil dump	-	-	-	-	-	Excavation	150.0	95.52	-	116.48*	362.00	Built up area including Road & Township	20.0	-	-	207.69	227.69	Green Belt	-	-	-	-	-	Undisturbed Area	88.36	-	-	127.08	215.44	Total	397.88	95.52	-	451.25	944.65
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Total	397.88	95.52	-	451.25	944.65																																																		
iv.	The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining”/ “post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the Ministry of Environment, Forest and climate change/ Regional Office on six monthly basis.	<p>Being complied.</p> <p>All the mining work is being conducted as per Approved Mining Plan and shall be continued.</p> <p>Progressive compliance status of land use pattern is submitted regularly to the Ministry of Environment, Forest and climate change/ Regional Office along with Six Monthly compliance Report. Land Restoration / Reclamation monitoring report of Umrer OC mine based on satellite data for the year 2022 enclosed as Annexure –VI.</p>																																																					

v.	<p>The top soil shall temporarily be stored at earmarked site(s) only and shall not be kept unutilized for long. The top soil shall be used for land reclamation and plantation purposes.</p> <p>Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to Ministry of Environment, Forest and Climate Change/ Regional Office on six monthly basis.</p>	<p>Complied.</p> <p>There is no fresh cutting of surface as the mine is in its exhausting phase so there is no excavation of top soil at present. Top soil excavated till date has been spread over OB dump sites for plantation purpose.</p> <p>Presently there are no active OB dumps. For rehabilitation of these OB dumps plantation is done covering an area of approx 106.64 Ha and the plantation has become self-sustaining in which chances of siltation & sediment flows are very less.</p> <p>Details of the plantation are as follows:</p> <table><tr><th>Type of land</th><th>Area</th><th>No. of plants</th><th>Species</th></tr><tr><td>External OB Dump</td><td>106.64</td><td>3,60,600</td><td>Sisu, Sivan, Neem, Karanj, Custard apple, Jamun, Cassia, Raintree, Amrud, Amala</td></tr></table>	Type of land	Area	No. of plants	Species	External OB Dump	106.64	3,60,600	Sisu, Sivan, Neem, Karanj, Custard apple, Jamun, Cassia, Raintree, Amrud, Amala
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External OB Dump	106.64	3,60,600	Sisu, Sivan, Neem, Karanj, Custard apple, Jamun, Cassia, Raintree, Amrud, Amala							
(c) Emissions, Effluents, and Waste Disposal										
i.	<p>Transporting of coal, to the extent permitted by road, shall be carried out by covered trucks/ conveyors.</p> <p>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 PM₁₀/PM_{2.5}) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/ State Pollution</p>	<p>Complied.</p> <p>All the vehicles transporting coal are loaded within permissible limit and trucks leaving the mine premises are covered with tarpaulin. It is ensured by using CCTV cameras. At present four nos of CCTV Cameras are installed at main check post of Umrer Area. CCTV footages are regularly monitored. Security guards are also deployed at main check post to check whether all the trucks leaving the mine premises are properly covered or not.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>In addition to fixed water sprinklers & rain guns, Mobile Water Sprinklers are used in all three shifts for dust suppression at approach roads, haul roads, coal transportation roads and coal</p>								

	Control Board.	<p>stock yard. The Fugitive dust is also monitored regularly and is kept under control.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none">• Tyre washing system is installed at main check post of Umrer Area.• 6 No of mobile water tankers of 10-28 KL capacity are in operation.• 75 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge, dozer section and CHP, details are as follows: <table><tr><th>Location</th><th>Nos. of fixed sprinklers</th></tr><tr><td>Weigh bridge to workshop</td><td>14</td></tr><tr><td>CHP</td><td>10</td></tr><tr><td>Dozer section</td><td>7</td></tr><tr><td>Wharf wall</td><td>44</td></tr></table> <ul style="list-style-type: none">• Mist Spray Arrangement system (150 nozzles) is provided at CHP.• Trolley mounted mist/fog generators are provided at CHP and Siding.	Location	Nos. of fixed sprinklers	Weigh bridge to workshop	14	CHP	10	Dozer section	7	Wharf wall	44
Location	Nos. of fixed sprinklers											
Weigh bridge to workshop	14											
CHP	10											
Dozer section	7											
Wharf wall	44											
ii.	Greenbelt, consisting of 3-tier plantation, of width not less than 7.5m, shall be developed all along the mine lease area in a phased manner. The green belt comprising of a mix of native species shall be developed all along the major approach / coal transportation roads.	<p>Complied.</p> <p>The mine is in last phase of operation and has reached the quarry edge. Undisturbed area of 108.36 Ha is brought under plantation which includes plantation on vacant land, embankments, township, plantation along the roads and mine boundary.</p> <p>Thick green belt is developed all along the mine boundary to provide a buffer against dust pollution. The overall length of this green belt is approx. 9.5 kms and width ranges from 210 m to 25 m.</p> <p>This plantation is done in consultation with State Forest Department. Density of the plants is maintained at 2500 plants per ha. The species planted are Sisu, Sivan, Neem, Karanj, Custard apple, Jamun, Cassia, Raintree, Amrud, Amala.</p> <p>Details are demarcated in the mine plan enclosed as Plate – II. Plantation details are enclosed as Annexure - V.</p>										

iii.	The transportation of coal shall be carried out as per the provisions and route proposed in the approved mining plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a “bypass” road, it should be constructed so that the impact of sound, dust and accidents could be appropriately mitigated.	<p>Complied.</p> <p>The transportation of coal is carried out as per the provisions and route proposed in the approved mining plan.</p> <p>Railway siding is within the Mine Lease area, approx. 75 - 80% coal is transported through rail to all the major consumers. The remaining 20 – 25% coal is transported through covered trucks. The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).</p> <p>There is no village in the mine lease area and coal is not transported through any village/ habitation there is no need for bypass road.</p>								
iv.	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining “PUC” certificate from the authorized pollution testing centres.	<p>Complied.</p> <p>Vehicular emissions are regularly monitored and kept under control. PUC are obtained for the vehicles engaged in mining and allied activities.</p>								
v.	Coal stock pile/crusher/feeder and breaker material transfer points shall invariably be provide with dust suppression system. Belt-conveyors shall be fully covered to avoid air borne dust. Side cladding all along the conveyor gantry should be made to avoid air borne dust. Drills shall be wet operated or fitted with dust extractors.	<p>Complied.</p> <p>Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water Sprinklers along weigh bridge, approach road & coal transportation road. Rain guns are provided at railway siding and Mist spray arrangement is provided at all transfer points of CHP to prevent the dust formation.</p> <p>Side cladding is provided along belt conveyors.</p> <p>Drills have wet drilling arrangement.</p> <p>Details of Air pollution control measures installed:</p> <ul style="list-style-type: none">• Tyre washing system is installed at main check post of Umrer Area.• 6 No of mobile water tankers of 10-28 KL capacity are in operation.• 75 nos. fixed sprinklers are installed along coal transportation road, railway siding, weigh bridge, dozer section and CHP, details are as follows: <table><tr><th>Location</th><th>Nos. of fixed sprinklers</th></tr><tr><td>Weigh bridge to workshop</td><td>14</td></tr><tr><td>CHP</td><td>10</td></tr><tr><td>Dozer section</td><td>7</td></tr></table>	Location	Nos. of fixed sprinklers	Weigh bridge to workshop	14	CHP	10	Dozer section	7
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Wharf wall	44			
vi.	Coal Handling Plant shall be operated with effective measures viz. bag filters/ water or mist sprinkling system etc. to check fugitive emissions from crushing operations, conveyor system, transfer points, etc.	Complied. Fugitive dust emissions from all the dust generating sources are controlled by Fixed Water sprinklers (Details as per previous point). Mist Spray Arrangement system (150 Nozzles) and trolley mounted mist/fog generators are provided at CHP.		
vii.	Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for construction and augmentation of ground water resources.	Complied. Ground water is not used for any mining operations. There has been no impact on ground water level in buffer zone villages. Rainwater harvesting measures implemented are listed below: <ul style="list-style-type: none">• The Mine sumps are unlined and have potential for augmentation of ground water resources.(Central quarry sump = 96.158 Million gallons capacity Eastern quarry sump = 122.69 Million gallons capacity)• A Check Dam is also provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2m from river bed)• In addition to this Roof top Rainwater harvesting system is provided at AGM Office and Canteen building of Umrer OCM.		
viii.	Catch/ garland drains and siltation ponds of appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly desilted	Complied. Catch drains are constructed around periphery of the OB dumps (top width 2 m, bottom width 1 m & height 1 m) to arrest silt and sediment flows from the respective dump sites. In addition to this, garland drains of size (top width 2.5 m, bottom width 1.5 m & height 1.5 m) are constructed around the periphery of the mine area. The catch drains/ garland drains mentioned above are desilted before onset of every monsoon. In case of OB benches in the quarry, cross drainage are provided which carries silt and sediments into the main sump made at the floor which accumulates all the silt and acts as first stage settling pond. The size of sumps are as follows: <ul style="list-style-type: none">• Central quarry sump = 96.158 Million gallons capacity (5.160 ha).• Eastern quarry sump = 122.69 Million gallons capacity (4.044 ha).		

	<p>particularly before onset of monsoon and maintained properly.</p> <p>Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilised for dust suppression measures and green belt development. 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>The water is then be pumped out onto the surface and is collected into sedimentation tank for final settling. The size of the sedimentation tank is 30 m X 8 m X 2.5 m.</p> <p>Treated Mine water is used for dust suppression, fire fighting and plantation etc. and the quality of which is monitored on fortnightly basis by CMPDIL.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (April 2023 to Sep 2023) is as follows:</p> <table><tr><th rowspan="2">Parameters</th><th colspan="3">Concentration (mg/L)</th></tr><tr><th>Permissible Limit</th><th>Min</th><th>Max</th></tr><tr><td>pH</td><td>5.5 to 9.0</td><td>7.23</td><td>8.25</td></tr><tr><td>TSS</td><td>100</td><td>28</td><td>52</td></tr><tr><td>COD</td><td>250</td><td>36</td><td>72</td></tr><tr><td>O & G</td><td>10</td><td colspan="2">BDL</td></tr></table> <p>Copy of Monitoring Report is enclosed as Annexure-VII.</p> <p>On date, all inactive OB dumps are covered with vegetation which has become self-sustained. Chances of siltation & sediment flows are very less.</p>	Parameters	Concentration (mg/L)			Permissible Limit	Min	Max	pH	5.5 to 9.0	7.23	8.25	TSS	100	28	52	COD	250	36	72	O & G	10	BDL	
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O & G	10	BDL																							
ix.	<p>Industrial waste water from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Oil and grease trap shall be installed and maintained fully functional with effluents discharge adhering to the norms.</p> <p>Sewage treatment plant of adequate capacity shall be installed for treatment of domestic waste.</p>	<p>Being complied.</p> <p>The effluent from workshop is treated in ETP provided with oil & grease trap (capacity: 150 KLD). Treated effluent is recycled and used in workshop for washing of HEMM.</p> <p>The quality water is monitored fortnightly and adequate measures will be taken (if need arises) to maintain the quality of water within permissible limits.</p> <p>Maximum and minimum concentration of Water parameters as per Environmental monitoring report (April 2023 to Sep 2023) is as follows:</p> <table><tr><th rowspan="2">Parameters</th><th colspan="3">Concentration (mg/L)</th></tr><tr><th>Permissible Limit</th><th>Min</th><th>Max</th></tr><tr><td>pH</td><td>5.5 to 9.0</td><td>7.12</td><td>8.14</td></tr><tr><td>TSS</td><td>100</td><td>22</td><td>44</td></tr><tr><td>COD</td><td>250</td><td>30</td><td>52</td></tr><tr><td>O & G</td><td>10</td><td colspan="2">BDL</td></tr></table> <p>Copy of Monitoring Report is enclosed as Annexure-VII.</p> <p>The domestic sewage disposal arrangement of 0.3 MLD using Phytorid technology is provided in combined township of Umrer</p>	Parameters	Concentration (mg/L)			Permissible Limit	Min	Max	pH	5.5 to 9.0	7.12	8.14	TSS	100	22	44	COD	250	30	52	O & G	10	BDL	
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		Area.												
x.	Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Complied. Groundwater recharge measures taken up are listed below: <ul style="list-style-type: none">• The Mine sumps are unlined and have potential for augmentation of ground water resources.(Central quarry sump = 96.158 Million gallons capacity Eastern quarry sump = 122.69 Million gallons capacity)• A Check Dam is also provided at Lal Puliya Railway Bridge. Dimensions (Length-55 m, height-1.2 m from river bed)• In addition to this Roof top Rainwater harvesting system is provided at AGM Office and Canteen building of Umrer OCM. There has been no impact on ground water level in buffer zone villages. However the water shortage in the villages, if any will be supplemented by project authorities.												
(d) Illumination, Noise & Vibration Control														
i.	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this ministry &its RO on six-monthly basis.	Being complied. Adequate lighting arrangements are provided in mine premises to meet DGMS standards. These are monitored regularly by lux meter.												
ii.	Adequate measures shall be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with personal protective equipments (PPE) like ear plugs/ muffs in conformity with the prescribed norms/ guidelines in this regard.Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.	Being complied. Noise pollution control measures are being implemented. Personnel working in operating mine are being provided with PPE like Ear plugs/ muffs. Numbers of Ear plugs issued in last 5 years are given below: <table><tr><th>Year</th><th>Ear Plugs Issued</th></tr><tr><td>2019-20</td><td>500</td></tr><tr><td>2020-21</td><td>50</td></tr><tr><td>2021-22</td><td>250</td></tr><tr><td>2022-23</td><td>155</td></tr><tr><td>2023-24 (Till Sep'23)</td><td>100</td></tr></table> As per statute all personnel working in mines is given training and retraining for safety aspects as being done presently in other operating mines of the company.	Year	Ear Plugs Issued	2019-20	500	2020-21	50	2021-22	250	2022-23	155	2023-24 (Till Sep'23)	100
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iii.	Controlled blasting techniques shall be practiced in order to Mitigative ground vibrations and fly rocks as per the guidelines prescribed by the DGMS.	<p>Being complied.</p> <p>Controlled blasting techniques with use of delay detonators are being practiced to control the ground vibration and to arrest the fly rocks. Controlled blasting technique as permitted by DGMS is adapted.</p>																															
iv.	The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises and report in this regard shall be submitted to this Ministry/ RO on six-monthly basis.	<p>Being complied.</p> <p>Noise level monitoring station is established at CHP & WCL Colony. Day time & night time noise level data are monitored fortnightly as per Env. (protection) Amendment Rule, 2000. Report of the same is being submitted to MoEF&CC on six-monthly basis.</p> <p>Noise level, as per Environmental monitoring report (April 2023 to Sep 2023) is as follows</p> <table><tr><th rowspan="2">Time</th><th colspan="3">Noise level in dB(A)</th></tr><tr><th>Permissible limit</th><th>Min</th><th>Max</th></tr><tr><td colspan="4">CHP</td></tr><tr><td>Day time</td><td>75</td><td>66.2</td><td>68.4</td></tr><tr><td>Night time</td><td>70</td><td>64.3</td><td>66.5</td></tr><tr><td colspan="4">Colony</td></tr><tr><td>Day time</td><td>55</td><td>42.2</td><td>44.5</td></tr><tr><td>Night time</td><td>45</td><td>41.4</td><td>44.2</td></tr></table> <p>Copy of Monitoring Report is enclosed as Annexure-VII.</p>	Time	Noise level in dB(A)			Permissible limit	Min	Max	CHP				Day time	75	66.2	68.4	Night time	70	64.3	66.5	Colony				Day time	55	42.2	44.5	Night time	45	41.4	44.2
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(e)	Occupational Health & Safety																																
i.	The project Proponent shall undertake occupational health survey for initial and periodical medical examination of the workers engaged in the project and maintain records	<p>Being complied.</p> <p>For surveillance of occupational health among workers, Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three year with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.</p>																															

<p>accordingly as per the provisions of the Mines Rules, 1955 and DGMS Circulars. Besides regular periodic health check-up, 20% of the workers identified from workforce engaged in active mining operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any.</p>	<p>Moreover, for every new employee Initial Medical Examination (IME) is also carried out for both departmental and contractual employee as per the provisions of the statute.</p> <p>During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine examination of blood and urine.</p> <p>All the activities within the mine are carried out with complying safety aspect and regular awareness is created among employees regarding safety and to avoid any accidents. All the employees working in projects are provided with PPE like mask, ear muffs, helmets and protective shoes.</p> <p>Various national and International Days are observed to increase awareness and educate general population (e.g. No Tobacco Day/ No Smoking Day, World AIDS day, World Breast Feeding Week etc.).</p> <p>Regular Family Welfare (L.T.T.) Camps organized with the help of State Govt. Full Co-operation is extended to State Govt. for Pulse Polio immunization. Medical facilities are being extended to non-employees in all sorts of acute emergencies.</p> <p>The details of the set up at Umrer Area Hospital are as follows:</p> <ul style="list-style-type: none">• Periodical Medical Examination (PME) Centres: 1 (Occupational Health Centres)• No. of Doctor engaged in Periodical Medical Examination: 3• No. of Doctor trained in Periodical Medical Examination: 2• No. of X-Ray machines (500 mA): 1• No. of Audiometer units: 1• No. of Spirometer units: 1• No. of pathology Labs: 1• No. of X-Ray Technicians: 1• No. of Laboratory Technicians: 3• No of ECG Technicians:2 <p>As seen from the above details that Area Hospital, Umrer Area, WCL is having all the infrastructural facilities to comply all the statutory obligations regarding occupational health survey of all employees.</p> <p>Details of IME/PME done in last 5 years are given below:</p> <table><tr><th rowspan="2">Year</th><th colspan="2">No. of workers (Dept. & Cont.)</th></tr><tr><th>IME</th><th>PME</th></tr><tr><td>2019-20</td><td>205</td><td>155</td></tr><tr><td>2020-21</td><td>150</td><td>185</td></tr><tr><td>2021-22</td><td>117</td><td>358</td></tr></table>	Year	No. of workers (Dept. & Cont.)		IME	PME	2019-20	205	155	2020-21	150	185	2021-22	117	358
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ii.	Personnel (including outsourcing employees) working in dusty areas shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.	<p>Being complied.</p> <p>Persons exposed to dusty areas are provided with protective gears like dust masks with goggles.</p> <p>Numbers of Dust Masks issued in last 5 years are given below:</p> <table><tr><th>Year</th><th>Dust Masks Issued</th></tr><tr><td>2019-20</td><td>289</td></tr><tr><td>2020-21</td><td>110</td></tr><tr><td>2021-22</td><td>150</td></tr><tr><td>2022-23</td><td>220</td></tr><tr><td>2023-24 (Till Sep'23)</td><td>200</td></tr></table> <p>As per statute all personnel working in mines are given training for safety and health aspects.</p> <p>Number of persons given training in last 5 year are given below:</p> <table><tr><th rowspan="2">Year</th><th colspan="3">No of workers</th></tr><tr><th>Departmental</th><th>Contractual</th><th>Total</th></tr><tr><td>2019-20</td><td>149</td><td>565</td><td>714</td></tr><tr><td>2020-21</td><td>127</td><td>292</td><td>419</td></tr><tr><td>2021-22</td><td>161</td><td>117</td><td>278</td></tr><tr><td>2022-23</td><td>141</td><td>150</td><td>291</td></tr><tr><td>2023-24 (Till Sep'23)</td><td>15</td><td>107</td><td>122</td></tr></table>	Year	Dust Masks Issued	2019-20	289	2020-21	110	2021-22	150	2022-23	220	2023-24 (Till Sep'23)	200	Year	No of workers			Departmental	Contractual	Total	2019-20	149	565	714	2020-21	127	292	419	2021-22	161	117	278	2022-23	141	150	291	2023-24 (Till Sep'23)	15	107	122
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iii.	Skill training as per safety norms specified by DGMS shall be provided to all workmen including the outsourcing employees to ensure high safety standards in mines.	<p>Being complied.</p> <p>Skill training as per safety norms specified by DGMS is given to workmen including the outsourcing employees to ensure high safety standards in mines. Number of persons given training in last 5 year are given below:</p> <table><tr><th rowspan="2">Year</th><th colspan="3">No of workers</th></tr><tr><th>Departmental</th><th>Contractual</th><th>Total</th></tr><tr><td>2019-20</td><td>149</td><td>565</td><td>714</td></tr><tr><td>2020-21</td><td>127</td><td>292</td><td>419</td></tr><tr><td>2021-22</td><td>161</td><td>117</td><td>278</td></tr><tr><td>2022-23</td><td>141</td><td>150</td><td>291</td></tr><tr><td>2023-24 (Till Sep'23)</td><td>15</td><td>107</td><td>122</td></tr></table>	Year	No of workers			Departmental	Contractual	Total	2019-20	149	565	714	2020-21	127	292	419	2021-22	161	117	278	2022-23	141	150	291	2023-24 (Till Sep'23)	15	107	122												
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(f)	Ecosystem and Biodiversity conservation																																								
i.	The project proponent shall take all precautionary	<p>Not applicable.</p> <p>Not applicable as there are no endangered flora/ fauna in core</p>																																							

	measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted/reported in the study area. Action plan, in this regard, if any shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	and buffer zone as per baseline data generated in EIA/EMP. As such, no precautionary measures are needed for conservation and protection of endangered flora / fauna. The study details of flora & fauna of core and buffer zone are enclosed as Annexure -VIII .																				
(g)	Public Hearing, R&R & CSR																					
i.	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project Proponent shall undertake all the tasks/measures as per the Action Plan submitted with budgetary provisions during the Public Hearing. Land oustees shall be compensated as per the norms laid out R&R Policy of the Company/ or the National R&R Policy/R&R Policy of the State Government, as applicable.	Complied. Public hearing was conducted on 23 rd September, 2004 for 944.65 ha land. Issues raised during the Public Hearing were addressed by Project Proponent. ATR for the same was submitted to Regional Office of MoEF&CC. Copy of ATR is Enclosed as Annexure -IX . Umrer OC Project was started in 1963 and all the land oustees were compensated as per the norms laid down by State Government/CIL as applicable at the time of acquisition.																				
ii.	The project proponent shall ensure that the expenditure towards, socio-economic development in and around the mine, in every financial year as per the Corporate Social Responsibility policy as per the provisions under Section 135 of the Components Act,2013.	Being Complied. The activities undertaken for the specific villages adopted under CSR are displayed on the company website and are updated accordingly. In every year area-wise detailed CSR plan is prepared after due consultation with local beneficiaries. Umrer Area has spent the following under CSR in last 12 years: <table><tr><th>Year</th><th>Rs. in lakhs</th></tr><tr><td>2022-23</td><td>54.79</td></tr><tr><td>2021-22</td><td>46.84</td></tr><tr><td>2020-21</td><td>53.17</td></tr><tr><td>2019-20</td><td>64.80</td></tr><tr><td>2018-19</td><td>12.01</td></tr><tr><td>2017-18</td><td>15.84</td></tr><tr><td>2016-17</td><td>6.09</td></tr><tr><td>2015-16</td><td>8.46</td></tr><tr><td>2014-15</td><td>39.98</td></tr></table>	Year	Rs. in lakhs	2022-23	54.79	2021-22	46.84	2020-21	53.17	2019-20	64.80	2018-19	12.01	2017-18	15.84	2016-17	6.09	2015-16	8.46	2014-15	39.98
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2013-14	216.88									
2012-13	152.98									
2011-12	85.80									
2010-11	49.59									
iii.	<p>The project proponent shall follow the mitigation measures provided in the Ministries OM No.Z-11013/57/2014-IA.II(M), dated 29th October, 2014, titled “Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.</p>	<p>Complied.</p> <p>Umrer OC Project was started in 1963 and all the land was acquired prior to that. As such there is no village in the mine lease area or surrounded by the mine lease area.</p> <p>Railway siding is within the Mine Lease area, 75 – 80% coal is transported through rail to all the major consumers. The remaining 20 – 25% coal is transported through covered trucks. The coal transportation road is properly maintained and it is directly connected to State Highways (BT road).</p> <p>Nearest villages are 750 m to 950 m away from the mine boundary.</p>								
iv.	<p>The Project Proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the Project Proponent shall implement the directions of the Hon’ble Supreme Court with regard</p>	<p>Not applicable.</p> <p>Umrer OC Project was started in 1963 and all the land was acquired prior to that. There is no grazing land in the core zone of the project. So, there is no necessity of making alternate arrangement for livestock grazing.</p>								

	to acquiring grazing land.	
(h)	Corporate Environment Responsibility	
i.	The Company shall have a well laid down Environment Policy duly approved by the Board of Directors. The Environment Policy should prescribe for standard operating procedures to have proper checks & balances and to bring into focus any infringements/deviation/24i olative of the environmental or forest norms/conditions. Also the company shall have a defined system of reporting of non-compliances/violations of environmental norms to the Board of Directors and/or shareholders or stakeholders.	<p>Complied.</p> <p>Coal India Limited has framed an Environment Policy which is being complied within all the mines. Copy is enclosed as Annexure – XI.</p> <p>To deal with environmental issues and for ensuring compliance with environmental clearance conditions, At corporate level (at HQ), there is a fully fledged Environment Department which is headed by General Manager (Env.) with a multi-disciplinary team of qualified and experienced engineers. The head of Corporate Environment department reports directly the Director (Tech), who is nominated owner of the company.</p> <p>At Area level, the Environmental management cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Umrer Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Umrer Sub Area and assisted by Mine Manager/Safety Officer, Umrer Sub Area, Survey Officer, Umrer Sub Area and Nodal Officer (Environment) of the project.</p>
ii.	The project proponent shall comply with the provisions contained in this Ministry's OM dated 1 st May, 2018, as applicable, regarding Corporate Environment Responsibility.	<p>Not applicable.</p> <p>As per the O.M dated 1st May 2018, the provision of CER is not applicable as mention in clause no. (ix) of the O.M i.e there is no additional capital investment for proposed expansion which has been duly approved by WCL Board vide its resolution no. WCL / BD/ SECTT./ BM-303/2018/93 dated 31.05.2018.</p> <p>Board approval along with Mining plan is enclosed as Annexure – XII.</p>
iii.	The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions should be displayed on website of the Company.	<p>Complied.</p> <p>The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions is displayed on company website www.westerncoal.in.</p>
iv.	A separate environmental management cell, both at the project level and company headquarter level, with suitable qualified personnel shall be set-up	<p>Complied.</p> <p>The Environmental Management cell at corporate level is headed by GM (Env) and assisted by a multidisciplinary team of qualified and trained engineers under the control of Director</p>

	under the control of a Senior Executive, who will report directly to the Head of the Organization.	<p>(Tech.)</p> <p>At Area level, the cell is headed by Area General Manager, Umrer Area, assisted by Area Nodal Officer (Environment) Umrer Area, Project Officer/Sub Area Manager, Umrer Sub Area, Staff Officer (Civil), Umrer Area.</p> <p>At Project level, it is headed by Sub-Area Manager, Umrer Sub Area and assisted by Mine Manager/Safety Officer, Umrer Sub Area, Survey Officer, Umrer Sub Area and Nodal Officer (Environment) of the project.</p>																
v.	Action plan for implementing the EMP and environmental clearance conditions shall be prepared and shall be duly approved by the competent authority. The Year-wise funds earmarked for environmental protection measures shall be kept in separate account and not 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 SixMonthly Compliance Report.	<p>Being complied.</p> <p>The funds earmarked for environment protection measures are not diverted for other works. The environment expenditure is reported in six monthly compliance report sent to RO, MOEF&CC.</p> <p>The capital expenditure for last 06 FYs are included here with this report.</p> <table><tr><th>Year</th><th>Expenditure (in Lakhs)</th></tr><tr><td>2017-18</td><td>55.46</td></tr><tr><td>2018-19</td><td>-</td></tr><tr><td>2019-20</td><td>-</td></tr><tr><td>2020-21</td><td>-</td></tr><tr><td>2021-22</td><td>5.79</td></tr><tr><td>2022-23</td><td>-</td></tr><tr><td>2023-24 (Till Sep'23)</td><td>-</td></tr></table>	Year	Expenditure (in Lakhs)	2017-18	55.46	2018-19	-	2019-20	-	2020-21	-	2021-22	5.79	2022-23	-	2023-24 (Till Sep'23)	-
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vi.	Self-Environmental Audit shall be conducted annually. Every three years, a third party environmental audit shall be carried out.	<p>Being complied.</p> <p>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 and Inter-area inspection to review compliance status is being done on quarterly basis.</p> <p>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>Every three years the third party assessment of EC compliance will be carried out.</p> <ul style="list-style-type: none">FY 2019-20: The inspection has been carried out by CSIR-NEERI for assessment of EC compliance in respect of Umrer Opencast on 30.08.2019 and The third party assessment of EC compliance report has been secured from CSIR-NEERI vide its letter dated 25.09.2019.FY 2022-23: Work for Third Party Assessment of EC compliance in respect of Umrer OC is awarded to CSIR-																

		NEERI vide Work order no. 1325- 1336 dated 22.12.2022. The inspection has been carried out on 07/02/2023.
(i)	Statutory Obligations	
i.	Environmental clearance shall be subject to orders of Hon'ble Supreme Court of India, Hon'ble High Court, NGT and any other Court of Law, from time to time, and as applicable to this project.	Noted
ii.	This Environmental Clearance shall be obtaining wildlife Clearance, if applicable from the Standing Committee of National Board for Wildlife.	Not Applicable. Not applicable as there are no endangered flora/ fauna in core and buffer zone as per baseline data generated for EIA/EMP. The study details of flora & fauna of core and buffer zone are enclosed as Annexure –VIII.
iii.	The Project Proponent shall obtain Consent to Establish/Operate under the Air Act, 1981 and water Act, 1974 from the concerned State Pollution Control Board.	Complied. Project was granted Consent to Operate for 4.9 MTPA from MPCB vide Consent No. Format 1.0/BO/CAC-Cell/CAC-UAN No.65263/CAC-1910000121 dt.03/10/19, which was valid till 31/03/21 (Copy Enclosed as Annexure-II). Subsequently, consent to renewal (1 st) for 4.9 MTPA has been secured from MPCB vide letter no: Format 1.0/CAC/UAN No.0000107261/CR/2211000597 dated 09/11/2022 which is valid up to 31/03/2024 (Copy Enclosed as Annexure-III).
iv.	The project proponent shall obtain necessary permission of the Central Ground Water Authority (CGWA).	Complied. Obtained NOC from CGWA for abstracting Ground Water (NOC No. CGWA/NOC/MIN/ORIG/2019/5653) which was valid till 10/07/2021. Renewal application (2 nd renewal) was submitted to CGWA through NOCAP portal, which is under process. Copy enclosed as Annexure –III.
(j)	Monitoring of Project	
i.	Adequate ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM ₁₀ , PM _{2.5} , SO ₂ , and NO _x . Location of the stations	Being complied. Four nos. of ambient air quality monitoring stations were established in consultation with MPCB Officials. considering meteorological data, Topographical features and environmentally and ecologically sensitive targets which are as follows: <ul style="list-style-type: none"> • Umrer Manager Office • Near Workshop

	<p>shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.</p> <p>Online ambient air quality monitoring station/stations may also be installed in addition to the regular air monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.</p>	<ul style="list-style-type: none">• Kanwa Village• Near Pump House/ Colony <p>Maximum and minimum concentration of parameters (SPM, PM₁₀, NO_x, SO_x and PM_{2.5}) as per Environmental monitoring report for a period from April' 23 to Sep'23 are as follows:</p> <table><tr><th rowspan="2">Parameters</th><th rowspan="2">Permissible limit</th><th colspan="2">Concentration (24 hourly values in µg/m³)</th></tr><tr><th>Min</th><th>Max</th></tr><tr><td rowspan="2">SPM</td><td>600</td><td>234</td><td>290</td></tr><tr><td>-</td><td>110</td><td>154</td></tr><tr><td rowspan="2">PM₁₀</td><td>300</td><td>138</td><td>192</td></tr><tr><td>100</td><td>60</td><td>89</td></tr><tr><td rowspan="2">PM_{2.5}</td><td>-</td><td>30</td><td>64</td></tr><tr><td>60</td><td>21</td><td>46</td></tr><tr><td rowspan="2">NO_x</td><td>120</td><td>11</td><td>19</td></tr><tr><td>80</td><td>07</td><td>15</td></tr><tr><td rowspan="2">SO_x</td><td>120</td><td>BDL</td><td>14</td></tr><tr><td>80</td><td>BDL</td><td>BDL</td></tr></table> <p>Toposheet plan showing Air quality monitoring locations is enclosed as Plate- I.</p> <p>Copy of Monitoring Report is enclosed as Annexure-VII.</p> <p>Monitoring of heavy metals is being carried out once in six months by CMPDIL. Copy of heavy metal monitoring report is enclosed as Annexure – XIII.</p>	Parameters	Permissible limit	Concentration (24 hourly values in µg/m ³)		Min	Max	SPM	600	234	290	-	110	154	PM ₁₀	300	138	192	100	60	89	PM _{2.5}	-	30	64	60	21	46	NO _x	120	11	19	80	07	15	SO _x	120	BDL	14	80	BDL	BDL
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	80	BDL	BDL																																								
ii.	<p>The Ambient Air Quality Monitoring in the core zone shall be carried out to ensure the coal industry standards notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/ Regional Office and to CPCB/SPCB.</p>	<p>Being complied.</p> <p>Ambient air quality is being monitored as per the coal industry standards notified vide GSR 742(E) dated 25.9.2000 & reports are submitted to MOEF & CC (WZ) Nagpur & Maharashtra Pollution Control Board.</p> <p>Copy of Monitoring Report is enclosed as Annexure - VII.</p> <p>Monitoring of heavy metals is being carried out once in six months by CMPDIL and the report of the same is submitted to MOEF & CC (WZ) Nagpur & Maharashtra Pollution Control Board. Copy of heavy metal monitoring report is enclosed as Annexure - XIII.</p>																																									

iii.	Effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Coal Industry Standard notified vide GSR 742(E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.	<p>Being complied.</p> <p>The quality of mine discharge water is monitored fortnightly basis as per GSR 742(E) of dated 25-05-2000.</p> <p>Copy of Monitoring Report is enclosed as Annexure - VII.</p>
iv.	The monitoring data shall be updated on the company's website and displayed at the project site. The circular No: J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	<p>Complied.</p> <p>Monitoring data is being regularly uploaded at WCL official website www.westerncoal.in and also displayed at the office of Sub Area Manager.</p>
v.	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of groundwater levels shall be carried out four times in a year i.e., pre- monsoon, monsoon, post-monsoon and winter and the ground water quality shall be monitored once in a year and data thus collected shall be sent regularly to Ministry of Environment, Forest and Climate Change / Regional Office.	<p>Being complied.</p> <p>Regular monitoring of ground water level from existing wells at 32 locations of Buffer zone is being done, for four times a year i.e. during pre-monsoon (May), monsoon (August), post-monsoon (November), and winter (January).</p> <p>Quality of groundwater as per IS: 10500: 2012 is analysed for 33 locations in Buffer zone once in a year.</p> <p>Ground water level and quality monitoring report is being sent to R.O., MoEF&CC, Nagpur and CGWA on regular basis.</p> <p>Groundwater monitoring report is enclosed as Annexure: XIV</p>
vi.	Monitoring of water quality upstream and downstream of water bodies shall be carried out	<p>Being complied.</p> <p>Water quality is monitored fortnightly basis and report is sent to Ministry of Environment, Forest and Climate Change / Regional</p>

	once in six months and record of monitoring date shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.	Office. Copy of Surface water Monitoring Report is enclosed as Annexure –XV .
vii.	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental conditions to the Ministry of Environment, Forest and Climate Change/ Regional Office. For half yearly monitoring reports, the data should be monitored for the period of April to September and October to March of the financial years.	Being complied. Six monthly reports on the status of the implementation of the stipulated environmental safeguards are submitted regularly to Regional office of Ministry of Environment, Forest and Climate Change. The six monthly report for the period from Oct 2022 to March 2023 is submitted to MoEF&CC on 30/05/2023.
viii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Complied. Inspection has been carried out by RO, MoEF& CC, Nagpur on dated 23.09.2019 for issuance of certified copy of compliance in respect of Umrer OC.
(k) Miscellaneous		
i.	Efforts should be made to reduce energy consumption by conservation, efficiency improvements and use of renewable energy.	Complied. Efforts are being made for the uses of Solar energy and conventional light bulbs are replaced by LEDs to reduce energy consumption. 01 no of 40 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at AGM Office of Umrer area and 01 no of 12 KWp On-Grid-Connected Roof Top Mounted solar power plant is installed at Area Hospital, Umrer Area. Copy of the commissioning report of solar plant is enclosed as Annexure - XVI.
ii.	The project authorities shall inform to the Regional Office regarding commencement of mining operations.	Noted and complied.

iii.	<p>A copy of Environment Clearance shall be marked to concerned Panchayat.</p> <p>A copy of the same shall also be sent to the concerned State Pollution Control Board, Regional office, District Industry sector and Collector's office/Tehsildar Office for information in public domain within 30 days.</p>	<p>Complied.</p> <p>A copy of Environmental Clearance letter has marked to concerned Panchayat on 04/02/2019 and the copy of the same is circulated to Maharashtra Pollution Control Board, Regional office.</p> <p>Copy enclosed as Annexure – XVII.</p>
iv.	<p>The Environmental Clearance shall be uploaded on the company's website. The, compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once every six months so as to bring the same in public domain.</p>	<p>Being complied.</p> <p>The clearance letter and the six monthly compliance report had been uploaded on the company's website so as to bring the same in the public domain.</p>
v.	<p>The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of this clearance, informing that the project has been accorded environmental clearance and a copy of the same is available with the State Pollution Control Board and also at website of the Ministry.</p>	<p>Complied.</p> <p>The same had been done after receipt of EC.</p> <p>Advertisements are given in the following News Papers:</p> <ul style="list-style-type: none"> • 'The Times of India' (English daily, Nagpur) dated 22/01/19 • 'Tarunbharat' (Marathi daily, Nagpur) dated 23/01/19 <p>Copy Enclosed as Annexure – XVIII.</p>

vi.	<p>The Environmental Statement for each financial year ending 31 March in Form-V is mandated to be submitted by the Project Proponent for the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be uploaded on the Company's website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MoEF&CC by e-mail. Concerns raised during public hearing</p>	<p>Complied.</p> <p>The environmental statement for each financial year is submitted regularly to the MOEF's Regional Office, Nagpur along with the status of compliance of EC conditions as being practiced in all operating mines and uploaded in Western Coalfields Limited official website.</p> <p>The Audit report for year 2022-23 was submitted online on 28/09/2023. Copy Enclosed as Annexure-XIX.</p>
vii.	<p>The above conditions will be enforced inter-alia, under the provisions of the Water (Preventions & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court and any other Court of Law relating to the subject matter.</p>	<p>Noted & agreed.</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 issues raised during public hearing shall also be implemented in letter and spirit.</p>	<p>Noted and agreed</p>


6	<p>The proponent shall obtain all necessary clearances/ approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection.</p>	<p>Project was granted Consent to Establish and Operate for 4.9 MTPA from MPCB vide Consent No. Format 1.0/BO/CAC-Cell/CAC-UAN No.65263/CAC-1910000121 dt.03/10/19, which was valid up to 31/03/21(Copy Enclosed as Annexure-II).</p> <p>Subsequently, consent to renewal (1st) for 4.9 MTPA has been secured from MPCB vide letter no: Format 1.0/CAC/UAN No.0000107261/CR/2211000597 dated 09/11/2022 which is valid up to 31/03/2024 (Copy Enclosed as Annexure-III).</p> <p>NOC from CGWA for abstracting Ground Water (NOC No. CGWA/ NOC/ MIN/ ORIG/ 2019/ 5653) was obtained which was valid till 10/07/2021.</p> <p>Renewal application (2nd Renewal) was submitted to CGWA through NOCAP portal, which is under process.</p> <p>Copy of NOC is enclosed as Annexure – IV.</p>
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>	<p>Noted.</p>
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 time, in terms of the orders dated 2nd August 2017 of Hon'ble Supreme Court in WP (Civil) No. 114/2014 in the matter of 'Common Cause Vs Union of India & others.</p>	<p>Noted.</p>

9	The concerned state government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgement of Hon'ble Supreme Court.	Does not pertain to the project
10	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgement of Hon'ble Supreme Court, as applicable, and other statutory requirements.	Noted.
11	This issues in supersession of the earlier EC granted vide letter dated 20 th May, 2005.	Noted.


**Ref: MOEF&CC Environment Clearance Letter No. J-11015/86/2005-IA.II (M)
dated 15/01/2021**

S.No	Compliance Condition	Status
4		
	No untreated mine water shall be discharged in Amb river which is adjacent to the boundary of the mine.	Agreed. No mine water is discharged into Amb river without proper treatment. Sedimentation tank of capacity 600 m ³ and retention time of min. 2 hours is provided for treating mine water.
	Hon'ble Supreme Court in an Writ Petition (s) Civil No. 114/ 2014, Common Cause vs Union of India &Ors vide its judgement dated 8 th January, 2020 has directed the Union of India to impose a condition in the mining lease and a similar condition	Being complied. The mine is in last phase of operation and has reached the quarry edge. Total area of 278.80 Ha is brought under plantation which includes plantation on OB dump, backfilled area, vacant land, embankments, township, plantation along the roads and mine

<p>in the environmental clearance and the mining plan to the effect that the mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. Compliance of this condition after the mining activity is over at the cost of the mining lease holders/ Project Proponent”.</p>	<p>boundary.</p> <p>Backfilling of decoaled area is in progress, grassing / plantation of this remaining area will be taken up after the dump becomes inactive.</p>
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 28.11.23
Sub Area Manager
 Umrer OCM
 Umrer Sub Area


 28.11.23
Colliery Manager
 Umrer OCM
 Umrer Sub Area


 28.11.23
Nodal Officer (Env.)
 Umrer OCM
 Umrer Sub Area