



# WESTERN COALFIELDS LIMITED



## SIX MONTHLY EC COMPLIANCE REPORT

### CHHATARPUR I & II UG EXPANSION MINE

#### PATHAKHERA AREA

(EC CAPACITY – 1.00 MTPA IN LAND AREA OF 825.338 Ha)

(EC VIDE LETTER NO:- J- 11015/194/2008-IA. II(M) Date:-27.04.2010)

(FOR THE PERIOD : 01/10/2022 to 31/03/2023)

**:: PART- IV ::**  
**WESTERN COALFIELDS LIMITED**  
OFFICE OF THE GENERAL MANAGER  
PATHAKHERA AREA

COMPLIANCE OF ENVIRONMENTAL CLEARANCE CONDITIONS IN RESPECT OF CHHATARPUR I&II MINES (COMBINED) ISSUED BY MOEF VIDE LETTER NO J-11015 / 194 / 2008.IA.II (M) DT 27.04.2010 FOR THE PRODUCTION CAPACITY 1.00 MTPA.

**A -SPECIAL CONDITIONS**

Sr. No.	Specific conditions	Compliance
i	No mining under taken beneath the balance 69.533 ha forest land until forestry clearance has been obtained.	Condition is duly Complied.
ii	Regular monitoring of subsidence movements on the surface over and around the working area and impact on natural drainage pattern, water bodies, vegetation, structure, roads and surroundings should be continued till movement ceases completely. In case of observation of any high rate of subsidence movement, appropriate effective corrective measures should be taken to avoid loss of life and material. Cracks should be effectively plugged with ballast and clayey soil, suitable material.	<p>Complied.</p> <p>Subsidence monitoring is being carried out on regular basis by the Highly skilled Team of DGMS Approved Survey Personnel. Copy of the latest <b>Subsidence monitoring Plan &amp; Subsidence Monitoring Pillars enclosed herewith for ready reference as Annexure-34.</b></p> <p>The cracks observed on the of surface has been duly plugging with ballast / clayey soil, etc</p>
iii	High root density tree species shall be selected and planted over areas likely to be affected by subsidence	<p>Noted for compliance. In depillaring areas. However, as predicted in the subsidence prediction report by ISM, Dhanbad, the likely subsidence would not cause any adverse impact on trees as the tensile strain value (9 – 12.8 mm/m) is not expected to cross the permissible limits (20 mm/m).</p> <p>Total <b><u>28,471 Nos</u></b> of trees have been planted within the Lease Hold boundary of Mine. <b>(Photographs of Plantation enclosed</b></p>

Sr. No.	Specific conditions	Compliance
		<b>herewith for ready reference as Annexure-18 )</b>
<b>iv</b>	All plantations shall be carried out after the onset of monsoon.	Condition is duly noted. Total <b>28,471 Nos</b> of trees have been planted within the Lease Hold boundary of Mine. <b>(Photographs of Plantation enclosed herewith for ready reference as Annexure-18 )</b>
<b>V</b>	Coal extraction shall also be optimized in areas where agricultural produce is continuing, some pillars shall be left below the agriculture land. No coal depillaring shall be under taken below areas of habitation	Coal Extraction /depillaring is being carried out strictly in accordance with the permission of DGMS. All precautions will be taken to protect surface infrastructure, habitation and for which, if required pillars, will be left intact or partial extraction will be done as per DGMS permission.
<b>vi</b>	Subsidence shall be monitored closely and if subsidence is found exceeding the permitted limits, then the landowners shall be adequately compensated with mutual agreement of the landowners.	Coal Extraction /depillaring will be carried out strictly in accordance with the permission of DGMS. All precautions will be taken to protect surface infrastructure, habitation. The Provision of crop the compensations to the land owners is kept in the budget.
<b>vii</b>	Garland drains (size, gradient and length) around the safety areas such as mine shaft and low lying areas and sump capacity should be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharging area adjoining the mine sites. Sump capacity should also be provided adequate retention period to allow proper settling of silt material.	Condition Duly Complied. Garland Drain with adequate sump Capacity has been provided for proper settling of silt material. Regular cleaning of the garland drain has been carried out with departmental resources on a quarterly basis. Total 03 Nos of Siltation Pond / Sump with combined treatment capacity of 2.17 MLD have been provided in the downstream of Coal Stock Yard to allow proper settling of silt material. <b>(Photographs of Siltation Ponds enclosed herewith for ready reference as Annexure- 23 )</b>
<b>viii</b>	Water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor systems, haulage roads, transfer	Condition complied.  The existing CHP facility is only used for storage of coal coming out from

Sr. No.	Specific conditions	Compliance
	points etc. Mobile sprinklers shall be provided in major haul roads and with high levels of SPM/RSPM.	<p>underground belt conveyor <b>There is No Coal Crushing arrangement available in the CHP of Chhatarpur – I &amp; II UG Mine.</b></p> <p>Water spraying arrangement is in operation at all transfer points along the conveyor system as well as in the bunker.</p> <p>To control the fugitive emission Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker for dust suppression purpose. <b>(Photographs of Sprinklers enclosed herewith for ready reference as Annexure- 19 )</b></p>
ix	Major approach roads shall be black topped and properly maintained. A 3 tier plantation using native spacing which are effective as a shield in trapping.	<p>Condition Duly Complied.</p> <p>All the internal roads have been black topped and regularly maintained to prevent fugitive emission.</p> <p>Good Housekeeping practices have been adopted.</p> <p>Black topped metalled road provided and maintained</p> <ol style="list-style-type: none"> <li>1. Main gate to SAM office = 200 m</li> <li>2. Chhatarpur I to Chhatarpur II = 1.5 km</li> <li>3. Chhatarpur II to Bagdona Main road = 2.5 km</li> </ol> <p>Total <b><u>28,471 Nos</u></b> of trees have been planted within the Lease Hold boundary of Mine to check the fugitive emission.</p> <p><b>(Photographs of Asphalted Roads enclosed herewith for ready reference as Annexure- 25 )</b></p>
x	Drills should be wet operated to avoid fugitive dust emissions.	The drills used in underground are all approved by DGMS and drilling operations are carried out strictly in accordance with the provisions of Coal Mines Regulations, 2017 and allied DGMS Technical Circulars

Sr. No.	Specific conditions	Compliance																																
		issued from time to time.																																
xi	Areas along roads, infrastructure, along M L boundary and township out side the lease area etc shall be developed as green belt by planting native species in consultation with the local DFO / Agriculture department. The density of trees shall be around 2500 plants per hector.	<p>Total 28,471 Nos of Plantation has been carried out all along the coal transportation road and within the Lease Hold boundary of Mine.</p> <p>The year wise number of plantation done is as follows.</p> <p><b><u>Chhatarpur – I mine :</u></b></p> <table><tr><td>Year</td><td>No. of Plants</td></tr><tr><td>1997-98</td><td>200</td></tr><tr><td>2006-07</td><td>3,500</td></tr><tr><td>2019-20</td><td>100</td></tr><tr><td></td><td>(DEPARTMENTAL)</td></tr><tr><td>2020-21</td><td>100 PLANTED &amp; 400 DISTRIBUTED</td></tr><tr><td>2021-22</td><td>10 PLANTED &amp; 400 DISTRIBUTED</td></tr><tr><td>2022-23</td><td>10 PLANTED</td></tr></table> <p><b><u>Chhatarpur – II UG mine:</u></b></p> <table><tr><td>1998-99</td><td>250</td></tr><tr><td>2005-06</td><td>18,331 (Kailash Nagar)</td></tr><tr><td>2006-07</td><td>4,750</td></tr><tr><td colspan="2">( among them 4000 trees planted in Kailash Nagar)</td></tr><tr><td>2012-13</td><td>1,100</td></tr><tr><td>2020-21</td><td>100 PLANTED &amp; 400 DISTRIBUTED</td></tr><tr><td>2021-22</td><td>10 PLANTED &amp; 400 DISTRIBUTED</td></tr><tr><td>2022-23</td><td>10 PLANTED</td></tr></table> <p><b>Grand Total      28,471 Nos. PLANTED &amp; 1,600 Nos. DISTRIBUTED</b></p> <p>Species planted – Jamun, Neem , Karanj, Arjun, Ashok , Mango etc.</p> <p>The Standard density of plantation (2500 nos. per hectare) is maintained.</p> <p><b>(Photographs of Plantation enclosed herewith for ready reference as</b></p>	Year	No. of Plants	1997-98	200	2006-07	3,500	2019-20	100		(DEPARTMENTAL)	2020-21	100 PLANTED & 400 DISTRIBUTED	2021-22	10 PLANTED & 400 DISTRIBUTED	2022-23	10 PLANTED	1998-99	250	2005-06	18,331 (Kailash Nagar)	2006-07	4,750	( among them 4000 trees planted in Kailash Nagar)		2012-13	1,100	2020-21	100 PLANTED & 400 DISTRIBUTED	2021-22	10 PLANTED & 400 DISTRIBUTED	2022-23	10 PLANTED
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Sr. No.	Specific conditions	Compliance
		<b>Annexure-18 )</b>
<b>xii</b>	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and construction of new peizometers. The monitoring for water levels should be done at least four times a year in pre- monsoon (May), Monsoon (August), Post-monsoon (November) and Winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	Monitoring of groundwater level establishing network of existing wells is being done & report has been submitted to CGWA, MPPCB and MOEF in a regular manner along with EC Compliance Reports. <b>(Ground Water Monitoring report &amp; photographs of Ground Water Monitoring enclosed herewith for ready reference as Annexure-13 )</b>
<b>xiii</b>	The company shall put up artificial ground water recharge measures for augmentation of ground water resource. The project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Noted. At present, Treated Strata Seepage Water from Mine is being utilized by nearby villages in Irrigation purpose. The Check dam has been constructed in this village during- 2011-12. <b>(Photographs of Check dam in Chhatarpur Village enclosed herewith for ready reference as Annexure-20 )</b> In addition to that, Total 11 Nos. of Hand pumps have been installed in nearby villages to meet the water requirement of villagers. <b>(Photographs of Handpumps enclosed herewith for ready reference as Annexure-21 )</b>
<b>xiv</b>	Mine discharge water shall be treated to confirm to prescribe levels before discharge in to the natural environment.	Condition complied. Mine Discharge samples are analyzed for the parameters - pH, TSS, Oil & Grease and COD and once in a year for all parameters as per Schedule-VI, Env. (Protection) rules, 1986. Water samples from mine has been monitored by CMPDIL RI-IV (NABL Accredited Environment Laboratory vide Cert. No. T-2969.) Copy of Mine water

Sr. No.	Specific conditions	Compliance
		<p>Monitoring Reports are enclosed herewith. It can be seen that, All the mine water quality monitoring results are found within permissible limit. <b>(Environmental Monitoring Report enclosed herewith for ready reference as Annexure-10 )</b></p>
xv	<p>ETP shall also be provided for treatment of effluents from workshop and the treated effluents shall be used for green belt development . An estimated 2000 cum / day of peak mine water shall be treated to prescribed standard before discharge into the surface water / agriculture use.</p>	<p>This is an operating Underground mine, no HEMM has been used in this mine. There is a small unit workshop meeting the day to day needs of mine like drill bit sharpening and minor repairs of small drill machines etc. As such there is no effluent generated / discharged particularly from Unit Workshop.</p> <p>The only source of discharge is Mine strata seepage water. The strata seepage water first gets accumulated in UG mine sump which has got sufficient storage capacity thereby allowing sufficient time for settlement of suspended particles. The water from the underground mine sump is again being subjected to settling in the 04 Nos. of sedimentation tank constructed at the surface with over all Treatment Capacity of 3.66 MLD. <b>(Photographs of Sedimentation Tanks enclosed herewith for ready reference as Annexure-22 )</b></p> <p>After treatment the mine water is being used for irrigation, plantation and dust suppression etc.</p> <p>Regular water quality monitoring is carried out by CMPDIL on behalf of WCL &amp; by MPCB as per Environment Protection Rules 2000. <b>(Environmental Monitoring Report enclosed herewith for ready reference as Annexure-10 )</b></p>
xvi	<p>Besides carrying out regular periodic health check up of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to</p>	<p>Condition Complied. Personnel working in dust areas have been provided with dust masks and ear plugs. Vocational training is being accorded to all mine workers (both department and contractual staff) on an</p>

Sr. No.	Specific conditions	Compliance
	<p>health check up for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmedabad within a period of one year and the results reported to this Ministry and to DGMS.</p>	<p>annual basis.</p> <p>Periodical health check up of Mine workers are carried out regularly with the purpose of detecting occupational diseases &amp; hearing impairment. (PME Details <b>enclosed herewith for ready reference as Annexure-26</b> )</p> <p>PP has set up of 60 bedded Area Hospital in Pathakhara Area with 08 qualified doctors catering to the medical needs of the employees and local populace.</p> <p>The following infrastructure is available in the area Hospital:</p> <ul style="list-style-type: none"> <li>• Qualified Doctors</li> <li>• Qualified lab technicians</li> <li>• Spirometry instrument</li> <li>• ECG Machine</li> <li>• Audiometer</li> <li>• X ray Machine</li> <li>• Blood testing apparatus</li> </ul> <p>The preventive measures / medicine for burns, malaria and provision of antsnake venom are ensured at Area Hospital.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three years up to the age of 50 Years and for those above 50 years is once in a years.</p> <p>WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees.</p> <p>No person has been detected with coal miners pneumoconiosis during the last 5 years.</p>
<b>xvii</b>	For monitoring land use pattern, and	Condition complied. Digital processing of



Sr. No.	Specific conditions	Compliance												
	for post mining land use a time series of land use maps based on Satellite imagery (on a scale 1: 5000) of the core and buffer zone from the start of project until end of mine life shall be prepared once in three years (for any one particular season which is consistent in the time series) and report submitted to MOEF and its Regional Office at Bhopal.	the entire lease area using remote sensing technique has been carried out through CMPDIL. <b><u>Latest Report of March 2021 attached in Annexure – 11.</u></b>												
xviii	A final Mine Closure Plan along with details of corpus fund should be submitted to the MOEF 5 years in advance of final mine closure for approval.	Condition Duly complied, Mine closure Plan has been prepared and approved by WCL board in compliance of guidelines of Ministry of Coal. All the mine closure activities have been carried out as per the approved Mine Closure Plan. <b>Copy of Final Mine Closure Plan along with details of corpus fund enclosed in Annexure - 12.</b>												
Xix	The project proponent shall undertake a socio –economic survey for identifying and taking up need based specific socio- economic activities / programmes / schemes, which are required in the area. Monitoring of the impacts of activities under CSR shall be carried out periodically. Education center shall be established in the area to create awareness and for organizing workshop etc.	CSR Activities are being carried out as per the applicable statutes. The CSR Impact Assessment Report enclosed herewith for detailed information. In addition to that, 121 No. of local youth are being taken as apprentice trainee in the various trades for enhancing the skill development in their respective trades in last 02 years. Initial training is being imparted to the local persons as per the Vocational Training Rule, 1966 for enabling them to be employed in the Coal mining sector as a Contractual worker. Every Year, around 250 persons have been trained in above manner. The last 06 years details are as follow: <table><tr><th>Year</th><th>No. of Trainee</th></tr><tr><td>2017</td><td>60</td></tr><tr><td>2018</td><td>67</td></tr><tr><td>2019</td><td>217</td></tr><tr><td>2020</td><td>147</td></tr><tr><td>2021</td><td>357</td></tr></table>	Year	No. of Trainee	2017	60	2018	67	2019	217	2020	147	2021	357
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		2022		186																						
		Total		1034																						
		Western Coalfields Ltd under the MOU of Coal India Ltd with Central Institute of Petrochemicals Engineering & Technology (CIPET) Bhopal sponsoring skill development training for local villagers/youth of Betul and Chhidwara district of Madhya Pradesh under its CSR. It is basically 6 monthly Machine Operator- Plastic Processing training course. It is fully residential course and all the expenses incurred by WCL under the CSR head. In the <b><u>FY 2020-21 trained 26 local youth</u></b> of Betul and Chhindwara district with expenditure of Rs 18.90 lacs, Beneficiaries Details is as below-																								
		<table><tr><td>Gender</td><td>SC</td><td>ST</td><td>OBC</td><td>Others</td></tr><tr><td>Male</td><td>4</td><td>2</td><td>11</td><td>4</td></tr><tr><td>Female</td><td>2</td><td>0</td><td>3</td><td>0</td></tr><tr><td>Total</td><td>6</td><td>2</td><td>14</td><td>4</td></tr></table>					Gender	SC	ST	OBC	Others	Male	4	2	11	4	Female	2	0	3	0	Total	6	2	14	4
		Gender	SC	ST	OBC	Others																				
		Male	4	2	11	4																				
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		Total	6	2	14	4																				
		The above 26 villagers placed in Private companies on an average salary of Rs 11,000 per month.																								
		In the <b><u>FY 2021-22 trained 36 local youth</u></b> of Betul and Chhindwara district with expenditure of Rs 25.20 lacs, Beneficiaries Details is as below-																								
<table><tr><td>Gende r</td><td>SC</td><td>ST</td><td>OBC</td><td>Others</td></tr><tr><td>Male</td><td>9</td><td>7</td><td>13</td><td>2</td></tr><tr><td>Femal e</td><td>0</td><td>2</td><td>3</td><td>0</td></tr><tr><td>Total</td><td>9</td><td>9</td><td>16</td><td>2</td></tr></table>					Gende r	SC	ST	OBC	Others	Male	9	7	13	2	Femal e	0	2	3	0	Total	9	9	16	2		
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Male	9	7	13	2																						
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Total	9	9	16	2																						
Out of 36 villagers, 30 placed in Private companies on an average salary of																										

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		<p>Rs. 14,000 per month.</p> <p><b><u>For FY 2022-23 WCL has trained 100 local youth</u></b> from Betul and Chhindwara District under Skill Development Programme with CIPET Bhopal with expenditure of Rs 70.00 lacs.</p> <p>➤ Beneficiaries Details is as below-</p> <table><tr><th>Gender</th><th>SC</th><th>ST</th><th>OB C</th><th>Others</th></tr><tr><td>Male</td><td>14</td><td>6</td><td>39</td><td>8</td></tr><tr><td>Female</td><td>5</td><td>3</td><td>16</td><td>9</td></tr><tr><td>Total</td><td>19</td><td>9</td><td>55</td><td>17</td></tr></table> <p>➤ The above youth has been employed with an average CTC of Rs. 15,000/- per Month in following industries:</p> <ol style="list-style-type: none"><li>1. Abhijeet Industries PVT. LTD., Sanand Gujarat</li><li>2. Jindal Polyfilms LTD. Igatpuri, Nasik</li><li>3. Yezaki India Pvt. Ltd. Pune</li><li>4. Yan Feng Automotive Pvt. Ltd , Sanand</li></ol> <p>➤ In 2019-20, Welder training has imparted to 5 students by WCL, Pathakhera Area.</p> <p>➤ In 2019-20, Machinist training has imparted to 13 students by WCL, Pathakhera Area.</p> <p>➤ In 2019-20, Coal Sampling training has imparted to 13 students by WCL, Pathakhera Area.</p> <p><b>CSR Impact Assessment attached in Annexure – 30.</b></p> <p><b>Photos of the above skill development activities are attached herewith in Annexure - 31.</b></p>	Gender	SC	ST	OB C	Others	Male	14	6	39	8	Female	5	3	16	9	Total	19	9	55	17
Gender	SC	ST	OB C	Others																		
Male	14	6	39	8																		
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Total	19	9	55	17																		

## B. GENEAL CONDITIONS :

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i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	The project proponent has applied for amendment in EC for deployment of Continuous Miner for augmentation of present level of Production. There will be no change in the mining method; the project will continue to be Board & Pillar with caving.
ii	No change in the Calendar Plan including excavation, quantum of mineral coal and waste shall be made.	Condition Complied. No change in production has been made beyond approved EC capacity of 1.00 MTPA since beginning of Mine. <b>Year wise Production details enclosed herewith in Annexure - 29.</b>
iii	Four Ambient Air Quality Monitoring Stations should be established in the Core Zone as well as in the Buffer Zone for SPM, RPM, SO <sub>2</sub> , NO <sub>x</sub> & CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with SPCB.	<p>Four Ambient Air Quality Monitoring Stations have been established in the Core Zone as well as in the Buffer Zone which have been decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets.</p> <p>The stations are as follows-</p> <ol style="list-style-type: none"> <li>1. Sub Station Chhat-I , Core Zone</li> <li>2- Sub station Chhat-II</li> <li>3. SAM Office , Core Zone</li> <li>4. Chattarpur Village, Buffer Zone.</li> </ol> <p>Perusal of the test reports reveal that, all the monitored parameters are well within the stipulated standards. <b>Environment Monitoring Reports attached in Annexure – 10.</b></p>
iv	Fugitive dust emissions ( PM 10, and PM 2.5 , So <sub>2</sub> a and NOPX ) from all sources should be controlled regularly, monitored & data recorded properly. Water spraying arrangement on haul roads, wagon, loading, dump trucks (loading & unloading) points should be provided	Condition complied. This is an underground mine. All the mining activities i.e. Drilling, Blasting, Loading, unloading, transportation of coal from district to surface has been carried out in the closed condition w.r.t. an open cast mine where all the activities are being carried out in exposed circumstances. Along with that, Following air Pollution

Sr. No.	General Conditions	Compliance
	& properly maintained.	<p>control mechanism has been introduced:</p> <ol style="list-style-type: none"> <li>1. Spray points have been provided in conveyor belt to prevent emission due to transportation.</li> <li>2. The mine does not contain CHP / Coal Crushing facility.</li> <li>3. All the internal roads have been black topped and regularly maintained to prevent fugitive emission.</li> <li>4. Sprinkler &amp; Rain guns have been installed along the coal stock Yard, near Internal Coal Transportation Road, Near Way bridge and Coal Bunker for dust suppression purpose.</li> <li>5. Total <b><u>28,471 Nos</u></b> of trees have been planted within the Lease Hold boundary of mine to check the fugitive emission.</li> </ol> <p>In addition to that, fugitive emission data is being collected on fortnightly basis. Test reports related to fugitive monitoring data is being undertaken through CMPDIL at 02 no. of locations on a fortnightly basis.</p> <p><b>Environment Monitoring Reports attached in Annexure – 10.</b></p>
v	Data on ambient air quality ( PM 10, and PM 2.5 , So2a and NOPX ) shall be regularly submitted to the ministry including its regional office at Bhopal and to the state Pollution Control Board and the central Pollution Control Board once in six months.	The ambient air quality monitoring data are being sent to MOEF and MPPCB Bhopal and CPCB regularly on Half Yearly Basis along with EC Compliance Report.
vi	Adequate measures should be taken for control of noise levels below the limit of 85 dB(A) in the work environment. Workers engaged in blasting & drilling operations of	This is an operating underground mine and all the coal winning operations are carried out below ground strictly as per the provisions of Coal Mines Regulations, 2017. The main source of excessive noise in

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	HEMM, CHP etc. should be provided with ear plugs/muffs.	this UG mine is Ventilation fan. In order to control excessive noise during operations, maintenance of all equipments as well as supply of protective gears namely, Ear Plugs & Muffs are carried out. In addition, regular monitoring of ambient noise levels at two locations on every fortnight is being done as per Environment Protection Amendment Rule 2000 & data recorded & submitted as quarterly report & results are within permissible limits. <b>Environment Monitoring Reports attached in Annexure – 10.</b>
vii	Industrial wastewater (workshop & wastewater from mine) should be properly collected, treated so as confirm to standards prescribed under GSR 422 (E) dt. 19/05/1993 & 31/12/1993 or as amended from time to time. Oil & grease trap should be installed before discharge of workshop effluents.	<p>Condition Complied.</p> <p>There is a small unit workshop meeting day to day needs of drills bit sharpening and minor repairs of small drill machines etc. as such there is no effluents or any other kind of liquid waste discharged from workshop. The wastewater generated during the mining operations is being initially accumulated in the mine sump, which acts primary settling pond. The water from the underground mine sump is again being subjected to settling in the sedimentation tank constructed at the surface.</p> <p>An area level central workshop is functional outside the mine lease area, Where small fabrication works like Roof bolt Production, Coal tub production have been carried out and no effluent has been generated from the Area workshop.</p>
viii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral should be covered with tarpaulin and optimally loaded.	This condition is duly complied. All hired vehicles are having valid PUC. The vehicles are used for transporting the minerals covered with tarpaulin and optimally loaded.
ix	Environmental laboratory should be	A full-fledged NABL approved

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	established with adequate number & type of pollution monitoring & analysis equipments in consultation with the State Pollution Control Board.	<p>environmental laboratory (An ISO-9000:2000 certified) already exists at CMPDI, Nagpur with qualified multi-disciplinary team of engineers along with adequate number of field staff for carrying out all the environmental monitoring of all WCL projects including this project. &amp; analysis is done as per Indian Standards. The Schedule of the above Environmental Monitoring has been duly communicated to MPPCB well in advance.</p> <p>In addition to that, A Continuous Ambient Air Quality Monitoring Station has been set up in the AGM Office. The above station is capable of monitoring various Parameters of Ambient Air like P.M.<sub>10</sub>, P.M.<sub>2.5</sub>, CO, SO<sub>x</sub>, NO<sub>x</sub>, Rainfall, Temperature, Relative Humidity, Barometric Pressure, Solar Radiation, Wind Speed, Wind Direction, etc. <b>(Photographs of CAAQMS enclosed in Annexure - 32)</b> The connectivity with MPPCB – Environment Response Centre – ESC has been successfully established and real time data have been successfully transmitted online to Environment Surveillance Centre of MPPCB.</p>
x	Personnel working in dusty areas should wear protective respiratory devices & they should also be provided with adequate training & information on safety & health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures if needed.	<p>Complied.</p> <p>Periodical health check up of Mine workers are carried out regularly with the purpose of detecting occupational diseases &amp; hearing impairment.</p> <p>PP has set up of 60 bedded Area Hospital in Pathakhera Area with 08 qualified doctors catering to the medical needs of the employees and local populace.</p> <p>The following infrastructure is available in the area Hospital:</p> <ul style="list-style-type: none"> <li>• Qualified Doctors</li> </ul>

Sr. No.	General Conditions	Compliance
		<ul style="list-style-type: none"> <li>• Qualified lab technicians</li> <li>• Spirometry instrument</li> <li>• ECG Machine</li> <li>• Audiometer</li> <li>• X ray Machine</li> <li>• Blood testing apparatus</li> </ul> <p>The preventive measures / medicine for burns, malaria and provision of antsnake venom are ensured at Area Hospital.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in three years up to the age of 50 Years and for those above 50 years is once in a years.</p> <p>Personnel working in dust areas have been provided with dust masks and ear plugs. In addition to that, Vocational training is being accorded to all mine workers (both department and contractual staff) on an annual basis.</p> <p>WCL is having occupational Health Committee at the corporate level as well as at the unit level for regular health status monitoring of all employees.</p> <p>No person has been detected with coal miners pneumoconiosis during the last 5 years.</p>
xi	A separate environmental management cell with suitable qualified personnel should be set-up under the control of Sr. Executive, who will report directly to the head of the organization	<p>Condition Complied. A separate Environmental management cell exists at Mine Level, Area Level and at Corporate HQ Level.</p> <p>a) At Area Level: Area General Manager of the Area coordinate the environmental activities of various units in the area in implementing all necessary provisions as per act assisted by Area Environment</p>



Sr. No.	General Conditions	Compliance
		<p>Officer at Area level for generation of environmental data and management of all aspect of environment along with the team of Engineers of CMPDIL for collection, analysis and interpretation of samples.</p> <p>b) At Project level : At project level Sub Area Manager and Manager primarily responsible for land resource management assisted by Project Environment Officer and other staff for Env. Pollution mitigation measures, environment monitoring and field activities like subsidence measurements, dust suppression, etc.</p>
<b>xii</b>	<p>The funds earmarked for environmental protection measures should be kept in separate account &amp; should not be diverted for other purposes. Year-wise expenditure should be reported to the Ministry &amp; its Regional Office located at Bhopal.</p>	<p>Condition Complied.</p> <p>The funds earmarked are used exclusively for Environment protection measures are kept separately in the form of Separate Environment Capital Budget &amp; Environment Revenue Budget and not used for any other purpose. Expenditure under capital head and revenue head as maintained Properly and uploaded on Parivesh portal with every Half yearly EC Conditions Compliance Report.</p> <p>Capital Expenditure till March 2023 = Rs. 149.92 Lakhs</p> <p>Revenue Expenditure till March 2023 = Rs. 662.68 Lakhs</p>
<b>xiii</b>	<p>Regional office of this Ministry located at Bhopal shall monitor compliance of stipulated conditions. Project authorities should extend full co-operation to officer(s) of Regional Office by furnishing requisite data/information/monitoring reports.</p>	<p>Full co-operation from project authorities shall be extended to officers of MOEFCC Regional Office, Bhopal, by furnishing the requisite data / information / monitoring reports.</p>
<b>xiv</b>	<p>Copy of clearance letter will be marked to concerned Panchayat / Local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.</p>	<p>Complied.</p>

Sr. No.	General Conditions	Compliance
xv	State Pollution Control Board shall display copy of clearance letter at Regional Office, District Industry Centre & Collector's office/Tahsildar's office for 30 days.	Pertaining to MPPCB.
xvi	Project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in vernacular language of locality concerned within seven days of issue of clearance letter informing that project has been accorded environmental clearance & copy of clearance is available with the State Pollution Control Board & may also be seen at website of Ministry of Environment & Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>	<p>In 2010, on receipt of EC copy, We have given the advertisement in the following newspapers:</p> <ol style="list-style-type: none"> <li>1. JABALPUR EXPRESS (CHHINDWARA EDDITION) IN HINDI LANGUAGE ON 07.05.2010</li> <li>2. DAINIK BHASKAR (BHOPAL EDDITION) IN HINDI LANGUAGE ON 08.05.2010</li> </ol> <p><b>(Copies of EC Advertisements enclosed in Annexure - 14)</b></p>
3	The Ministry of any other competent authority may stipulate any further condition for environmental protection.	The PP agrees to the condition
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection) Act. 1986.	The PP agrees to the condition
5	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and made for the costs incurred for taking up remedial measures in case of soil elimination, contamination, of	The PP agrees to the condition

<b>Sr. No.</b>	<b>General Conditions</b>	<b>Compliance</b>
	ground wall and diseases due to the mining operation.	