



**A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF & CC vide letter no- J-11015/332/2008-IA. II (M) dated 22-10-2010**

**regarding**

**Expansion of Saoner UG Project from 0.96 MTPA to 2 MTPA in ML area of 2871.39 ha) located in village-Borgaon, Tehsil-Saoner, District Nagpur in Maharashtra State**

**for**

**the period from 01/04/2022 to 30/09/2022  
submitted in fulfilment  
of the compliance of EC Condition**

**Submitted by:**

**Office of the Sub Area Manager,  
Bhanegaon Singhori Sub Area,  
Post- Bina Bhanegaon, Tehsil- Kamptee,  
District- Nagpur, Maharashtra State, India  
M/s. Western Coalfields Limited, Nagpur**

**A report on the status of compliances of various conditions stipulated in Environment Clearance granted by MOEF & CC vide letter no- J-11015/67/2006-IA. II(M) Pt. dated 22.08.2019 for Expansion of Singhori OC Mine from 0.80 to 1.12 MTPA in mine lease area of 425.04 Ha of M/s Western Coalfields Limited located in Nagpur Area, Village-Singhori, The-Parsoni of Nagpur District in Maharashtra State.**

A monitoring report on the status of compliance of conditions stipulated in Environmental clearance is given as under:

S. N	Condition as per EC dated 22.08.19	Compliance Status as on 30.09.22
4.	Specific Compliance	Compliance Status
i)	The project Proponent shall obtain Consent to Establish from the State Pollution Control Board for the proposed Peak capacity of 1.12 MTPA prior to commencement of the increased production.	<b>Complied.</b> Direct Consent to Operate granted vide consent order no.CR-2112001542 dated 27.12.2021 and valid upto 31.03.2023 for 1.12 MTPA from MPCB considering the Consent to Establish application in the CAC meeting dated 12.03.2020. <b>(Annexure-1)</b>
ii)	Transportation of coal from face to Coal heap to Coal Handling Plant shall be carried out through covered trucks.	<b>Complied</b> Transportation of coal from face to Coal heap is carried out by trucks and coal transportation is done through tarpaulin covered trucks. <b>(Annexure-2)</b>
iii)	To control the production of dust at source, the crusher and in-pit belt conveyor shall be provided with mist type sprinklers.	<b>Complied.</b> The mine has started its operation in F.Y 2017-18 and CHP has not constructed yet. Mobile crusher has been provided with dust control arrangement for crushing of coal. Adequate dust suppression arrangement will be commission in the proposed CHP. The details air pollution control measures are as follow 1. 18 nos. of rain guns installed at coal stock 2. 1 no. of mist canon deployed at mobile crusher. 3. Such as fixed sprinklers and mist canon system. 4. Three nos. (3) of the mobile water tanker having a capacity of 28 kl, 12 kl and 06 kl are deployed for water spraying are in operation. 5. 86,500 nos. of saplings planted within the ML area covering an area of 36.6 ha. Proposed Pollution Control measures:

EC Compliance status report for Expansion of Singhori Opencast coal mining project from 0.80 MTPA to 1.12 MTPA in mine lease area of 425.04 Ha of M/s Western Coalfields Limited located in Nagpur Area, Village Singhori, Taluka Parsoni, District Nagpur (Maharashtra)

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		<p>02 nos. of mist canon system.</p> <p>Transportation of coal through closed pipe conveyor belt system from mine pit to 2 nos. of Thermal Power Stations named Khapadkheda Koradi of MAHGenco.</p> <p><b>(Annexure-3)</b></p>
iv)	<p><b>Mitigating measures shall be undertaken to control dust another fugitive emission all along the road by providing sufficient water sprinklers. Adequate corrective measures shall be undertaken to control dust emission, 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.</b></p>	<p><b>Complied.</b></p> <p>Adequate mitigation measures have been put in place at various dust generating sources to control dust and other fugitive emissions. Existing measures will be appropriately augmented/strengthened. The details air pollution control measures are as follow</p> <ol style="list-style-type: none"> <li>1. 18 nos. of rain guns installed at coal stock</li> <li>2. 1 no. of mist canon deployed at Mobile crusher.</li> </ol> <p>Such as fixed sprinklers and mist canon system.</p> <ol style="list-style-type: none"> <li>3. Three nos. (3) of the mobile water tanker having a capacity of 28 kl, 12 kl and 06 kl are deployed for water spraying are in operation.</li> <li>4. 86,500 nos. of saplings planted within the ML area covering an area of 36.6 ha.</li> </ol> <p>Proposed Pollution Control measures:</p> <p>02 nos. of mist canon system.</p> <p>Transportation of coal through closed pipe conveyor belt system from mine pit to 2 nos. of Thermal Power Stations named Khapadkheda Koradi of MAHGenco.</p> <p><b>(Annexure-3).</b></p>
v)	<p><b>The company shall obtain approval of CGWA for use of groundwater for mining operations at its enhanced capacity of 1.12 MTPA.</b></p>	<p><b>Complied.</b></p> <p>No Objection Certificate (NOC) for ground water abstraction has been obtained from Central Ground Water Authority, (CGWA), New Delhi vide NOC no CGWA/NOC/MIN/ORIG/2019/6526 dated 25.10.2019 and valid up to 24.10.2021. The same has been applied for first renewal through online portal of CGWA, which is under consideration at link - <a href="https://www.cgwa-noc.gov.in/ExternalUser/ApplicantHome.aspx">https://www.cgwa-noc.gov.in/ExternalUser/ApplicantHome.aspx</a></p>

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		(Annexure-4)
vi)	Continuous monitoring of occupational safety and other health hazards and the corrective actions need to be ensured.	<p><b>Complied.</b></p> <p>As, regular and periodical medical examination is carried out with the purpose of detecting occupation diseases and hearing, impairment in the 2 nos. of 50 bedded each hospital with qualified doctors catering to the medical need of the employees and local populace, which are well equipped with necessary infrastructure viz.</p> <ul style="list-style-type: none"> <li>• Qualified Doctors</li> <li>• Qualified lab technician</li> <li>• Spirometerinstrument,</li> <li>• Audiometry facilities</li> <li>• ECG machine</li> <li>• facilities for X-Ray</li> <li>• Laboratory facilities for bio-chemical tests</li> <li>• and qualified medical personnel are available.</li> </ul> <p>The prevention measures / medicine for burned, malaria and provision of anti-snake venom are ensured.</p> <p>Initial Medical Examination (IME) is carried out during joining period of the workers. Periodical Medical Examination (PME) is done once in five years for below 45 years age workers and once in year for 55 years age workers and reports of medical examination carried out at Area Hospitals are submitted to DGMS on regular basis and are well maintained. PME is done with the purpose of detecting and keeping records of diseases with specific importance of coal works new such as pneumoconiosis. This is covered under 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>The details of the IME/PME of last 4 years are as below:</p>

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		Year	PME (Emplo yee)	PME (Contr actual worke rs)	IME (Contra ctual worker s)
		2019	59	0	87
		2020	62	0	107
		2021	0	0	4
		2022	26	19	61
		Total	147	19	259
		<b>(Annexure-5)</b>			
vii)	<b>Persons of nearby villages shall be given training on livelihood and skill development to make them employable.</b>	<b>Complied.</b>  Skilled development trainings are conducted for persons of nearby village of the project and for project affected person for livelihood and self-employment. The expenditure incurred for providing training is approximate 48.023 Lakhs. Year wise details for the training programme up to 2020 with no of beneficiaries is attached. It is to be mentioned here that due to COVID restriction the training programme was closed in year 2021-22.  <b>(Annexure-6)</b>			
viii)	<b>To ensure health and welfare of nearby villages, regular medical camps shall be organized at least once in six months.</b>	<b>Complied.</b>  Regular medical camps are conducted at Walni and J N Hospital of WCL, Nagpur Area for all nearby villages in and around the mine. The total bedding capacity of both hospitals is 100 nos.  Camp covered-Blood donation camp, Cardiac Evaluation camp, tobacco, cancer detection oral cancer detection camp, cancer screening camp, diabetic screening camp, lipid profile etc. Year wise total camp (CSR and welfare) are as below.			

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		<table><tr><th>F.Y.</th><th>Total no. of camp</th><th>Total no of benefi ciaries</th><th>Health camps</th></tr><tr><td>18-19</td><td>12</td><td>1886</td><td rowspan="4">diagnostic camps, health awareness camp/ specific health camps (HIV/AIDS, eye diabetes cancer etc.), mobile health camps</td></tr><tr><td>19-20</td><td>02</td><td>207</td></tr><tr><td>20-21</td><td>06</td><td>509</td></tr><tr><td>21-22</td><td>07</td><td>486</td></tr></table>	F.Y.	Total no. of camp	Total no of benefi ciaries	Health camps	18-19	12	1886	diagnostic camps, health awareness camp/ specific health camps (HIV/AIDS, eye diabetes cancer etc.), mobile health camps	19-20	02	207	20-21	06	509	21-22	07	486				
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		Year wise detail with photos is attached (Annexure-7)																					
ix)	Thick green belt of adequate width at the final boundary in the down wind direction of the project site shall be developed to mitigate/check the dust pollution.	<table><tr><th colspan="4">Complied.</th></tr><tr><th>Year</th><th>No. of saplings planted</th><th>Location</th><th>Specie s planted</th></tr><tr><td>18-19</td><td>25000</td><td>Plain land near Singhori &amp; Dorli village</td><td rowspan="4">Mix of medicinal, fruiting, ornamental tick</td></tr><tr><td>19-20</td><td>15000</td><td>Plain land</td></tr><tr><td>20-21</td><td>1500</td><td>Plain land near mine boundary</td></tr><tr><td>21-22</td><td>45000</td><td>Plain land and embankment, coal transportation road</td></tr></table> <p>Till date 86,500 nos. of saplings planted within the ML area covering an area of 36.6 ha (approx.). Plantation program is carried out through State expert agencies with 4 years maintenance after year of plantation. Further plantation will be carried out as per the EC conditions and the EIA/EMP progressively by planting native species in consultation with the state forest department.</p>	Complied.				Year	No. of saplings planted	Location	Specie s planted	18-19	25000	Plain land near Singhori & Dorli village	Mix of medicinal, fruiting, ornamental tick	19-20	15000	Plain land	20-21	1500	Plain land near mine boundary	21-22	45000	Plain land and embankment, coal transportation road
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		<b>(Annexure-8)</b>
x)	<b>Effort shall be made for utilizing alternate sources of surface water, abandoned mines or else whatsoever and thus minimizing the dependability on a single source.</b>	<b>Complied.</b>  At present project water requirement is fulfilled by the mine discharge water only. Additionally, all the lighting in the office has been replaced by LED and Installed a Solar power plant of 70 KW capacities at Sub Area Manager Office, Bhanegaon Singhori Sub Area to reduce the dependability on a single source. 80 KW roof top solar power plant installed at AGM Office, Nagpur Area. 70 KW roof top solar power plant installed at J N Hospital, Kamptee. <b>(Photo: Annexure-58)</b>
xi)	<b>A third-party assessment of EC compliance shall be undertaken once in three years through agency like ICFRI/NEER/IIT or any other expert agency identified by the Ministry.</b>	<b>PP has consented to condition to comply with due course of time.</b>  Since, EC for this mine has been accorded in Aug 2019 and accordingly mine is eligible for third party environment audit after Sept.2022, which will be ensured very shortly through agency like ICFRI / NEERI / IIT or any other agency identified by the Ministry.
<b>4.1</b>	<b>Statutory Compliance</b>	<b>Compliance Status</b>
<b>(a)</b>		
(i)	<b>The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.</b>	<b>Complied.</b>  Project Proponent has obtained Forest Clearance (FC) from MoEF&CC, Nagpur vide letter no F.No-MHC 026/2014-BHO/2887 dated 20.11.2017 (stage-I) and F.No 6-MHC 026/2014-BHO/3996 dated 31.07.2018 (stage-II) in favor of M/s. Western Coalfields Limited for diversion of 14.23 ha of Zupdi Jungle under Forest (Conservation) Act, 1980. <b>(Annexure-57).</b>
(ii)	<b>The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.</b>	<b>Not applicable for this project.</b>  There is no National Parks, Wild life

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		Sanctuaries and Eco sensitive zones found in 10 KM boundary of the project.
(iii)	The project proponent shall prepare a Site-Specific Conservation Plan / Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan /Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report (in case of the presence of schedule-I species in the study area).	<p><b>Not applicable for this project.</b></p> <p>There is no National Parks, Wild life Sanctuaries and Eco sensitive zones found in 10 KM boundary of the project.</p>
(iv)	The project proponent shall obtain Consent to Establish/Operate under the provisions of Air (Prevention &Control of Pollution) Act, 1981, and the Water (Prevention & Control of Pollution) Act, 1974, from the concerned State pollution Control Board /Committee.	<p><b>Complied.</b></p> <p>The consent to Operate has been obtained for 1.12 MTPA which is valid up to 31.03.2023. (Annex-9)</p>
(v)	The project proponent shall obtain the necessary permission from the Central Ground Water Authority.	<p><b>Complied.</b></p> <p>No Objection Certificate (NOC) for ground water abstraction has been obtained from Central Ground Water Authority, (CGWA), New Delhi vide NOC no CGWA/NOC/MIN/ORIG/2019/6526 dated 25.10.2019 and valid up to 24.10.2021. The same has been applied for renewal through online portal of CGWA and is under consideration (Annex-10).</p>
(vi)	Solid /hazardous waste generated in the mines needs to addressed in accordance to the Solid Waste Management Rules, 2016 / Hazardous & Other Waste Management Rules, 2016.	<p><b>Not applicable.</b></p> <p>There is no residential colony for the said project as it is a HoE project (Hiring of Equipment).</p>
(b)	<b>Air quality monitoring and preservation</b>	
(i)	Continuous ambient air quality monitoring stations as prescribed in the status be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM <sub>10</sub> ,	<p><b>Complied.</b></p> <p>Installation of Continuous ambient air quality monitoring stations has been completed &amp; working properly. One more</p>

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	<p><b>PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>2</sub>, NO<sub>x</sub>. Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Online ambient air quality monitoring stations may also be installed in addition to the regular monitoring stations as per the requirement and/or in consultation with the SPCB. Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. to be carried out at least once in six months.</b></p>	<p>CAAQMS is proposed to be installed on or before March 2023.</p> <p><b>(Annexure-11).</b></p> <p>Four ambient air quality monitoring station covering core as well as buffer zone are established as follows</p> <ul style="list-style-type: none"> <li>• NSOA-1-ContractorCamp-Singhori OC</li> <li>• NSOA-2- Sohali Village</li> <li>• NSOA-3_Hingana Village</li> <li>• NSOA-4-Dorli Village</li> </ul> <p>The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB.</p> <p>Monitoring data is being submitted to MOEF &amp;CC &amp; MPCB regularly.</p> <p>The monitoring results for period of 01.04.2021 to 31.07.2022 attached as<b>(Annexure-12).</b></p> <p>Visited the Online CAAQMS Room and checked the sensors, data login systems etc. the system was maintained satisfactorily.</p> <p>Moreover, monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. are being carried out every six months. Latest report of heavy metal monitoring is also enclosed as <b>(Annexure-13).</b></p>
(ii)	<p><b>The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25<sup>th</sup>September 2000 and as amended from time to time by the Central Pollution Control Board. Data on ambient air quality and heavy metals such as HQ. As, Ni, Cd, Cr, and other monitoring data shall be regularly reported to the Ministry / Regional Office and to the CPCB/SPCB.</b></p>	<p><b>Complied.</b></p> <p>Ambient air quality monitoring of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO parameters are being carried out on fortnightly basis as per GSR 742(E) 2000 and monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc. are being carried out every six months and the reports are being submitted to RO, MoEF &amp; CC and SPCB regularly.</p> <p><b>(Annexure-12 and annexure-13).</b></p>
(iii)	<p><b>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors.</b></p>	<p><b>Complied.</b></p> <p>At present, the coal is transported to the</p>

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<p><b>Effective control measures such as regular water/mist sprinkling/rain gun etc. shall be carried out in critical areas prone to air pollution (with higher values of PM<sub>10</sub>/PM<sub>2.5</sub>) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central /State Pollution Control Board.</b></p>	<p>nearest Thermal Power Plants named TPS Koradi and TPS Khapadkheda via black topped road (BT) and all the coal carrying trucks are properly covered by tarpaulin to reduce fugitive dust emission.</p> <p><b>(Photo attached as annexure-14)</b></p> <p>Further to eliminate the air pollution due to coal transportation by road, installation of pipe conveyor has been proposed for transportation of coal from mine to thermal power plants.</p> <p>The installation and commissioning of the closed pipe conveyor belt system by MAHAGENCO is in final stage expecting to be completed on or before Sept. 2023 then after the major portion of coal will be transported by conveyor system for transportation of the coal from coal mine pit (Singhori OCM) to the Thermal Power Plants named TPS Khaperkheda and TPS Koradi of the MAHAGENCO. The system is installed by MAHAGENCO by capitalizing about amount of Rs.491 Cr. intended for transportation of coal from 4 nos. of mine pits of opencast coal mines under command range of Nagpur Area namely Amalgamated Inder Kamptee Deep OCM, Gondegaon OCM, Bhanegaon OCM and Singhori OCM with a total conveyor length of about 17 km. Project Proponent confirmed that the system is expected to be commissioned on or before Sept.2023 (delayed due to covid-19) leading to shifting of the majority of the existing coal transportation from trucks (by road) to through closed pipe conveyor belt system which will contribute in the reduction of the fugitive dust generation during mineral transportation, saving of the fossil fuel used during the coal transportation directly effecting the environment and national economy. Indirectly, it will also reduce the stress on fossil fuel (diesel), reduction in disease caused due to the fugitive emission, road accidents/ traffic and carbon</p>
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		<p>emission.</p> <p><b>((photo attached as annexure-15.A))</b></p> <p>The following air pollution control measures are in place to mitigate air pollution due to mining activities; coal transportation and allied activities are placed below:</p> <p>18 nos. of Fixed Water Sprinklers have been installed and are in operation near to coal stock yard to the weigh bridge to suppress the fugitive dust.</p> <p>One no of mist canon trolley mounted system type for dust suppression has deployed on mobile crusher.</p> <p>Three nos. (3) of the mobile water tanker having a capacity of 28 kl, 12 kl and 06 kl are deployed for the water spraying regarding effective dust suppression on coal transportation roads, haul road &amp; near coal stock yard.</p> <p>All Coal Carrying trucks are being properly covered by Tarpaulin to minimize the fugitive dust emission (arise due to coal spillage) and trucks are being monitored through via CCTVs cameras &amp; GPS system for the compliance.</p> <p>To minimize the dust generation during coal transportation the roads has been black topped.</p> <p>Road Sweeping is done by manual mean on as and when required basis.</p> <p>The mine is operated under HoE (Hire of Equipment). All the operating vehicles are having valid PUC certificates. HEMMs are serviced, washed and other maintenance works are carried out at authorized service centers outside project area. That limits the use of ETP at the Project Site.</p> <p>To reduce electricity consumption LED lights have been installed in all offices &amp; Chankapur Colony.</p> <p>To reduce air pollution in colony area, (12 km away from project), all workers have facilitated with LPG cylinders by management. No Coal is issued to workers for domestic purpose.</p>
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		<p>Four number of AAQ monitoring stations have been established for regular monitoring (TPM, PM 10, PM 2.5, SO<sub>2</sub>, NO<sub>x</sub>) of the ambient air quality and water also. The monitoring is done by Central Mine Planning and Design Institute, Regional Institute no-IV, Nagpur-A NABL Accredited Lab on fortnight basis. And reports are regularly being submitted to MOEF&amp;CC, New Delhi &amp; Regional Office also.</p> <p>Till date 86,500 nos. of saplings planted within the ML area covering an area of 36.6 ha (approx.). Plantation program is carried out through State expert agencies with 4 years maintenance after year of plantation.</p>
(iv)	<p><b>The transportation of coal shall be carried out as per the provisions and route envisaged in the approved Mining Plan or environment monitoring plan. Transportation of the coal through the existing road passing through any village shall be avoided. In case, it is proposed to construct a 'bypass' road, it should be so constructed so that the impact of sound, dust and accidents could be appropriately mitigated.</b></p>	<p><b>Complied.</b></p> <p>At present, coal is transported as per the provisions and route envisaged in the approved Mining Plan or Environment Management Plan.</p> <p>Presently, coal transportation is done through a newly constructed coal transportation road (3.8 km) as per the route plan proposed in the approved Mining plan by eliminating the use of the existing road passing through Dorli village. For more details, please refer 4.b (iii)</p> <p>Additionally, the newly constructed coal transported road is covered with avenue plantation on both sides with native species to appropriately reduce the impact of sound, dust, and accidents from the local villages.</p> <p><b>(Annex-15.B).</b></p>
(v)	<p><b>Vehicular emissions shall be kept under control and regularly monitored; All the vehicles engaged in mining and allied activities shall operate only after obtaining the authorized pollution testing centers.</b></p>	<p><b>Complied.</b></p> <p>As per the present practice, the PUC (Pollution Under Control) Certificate from the authorized pollution testing center is mandatory for all vehicles in the mine premises area and the same will be continued in future also <b>(Annexure-16).</b></p>
(vi)	<p><b>Coal stock pile /crusher feeder and breaker material transfer points shall</b></p>	<p><b>Complied.</b></p> <p>At present, mist and water spraying system</p>

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	invariably be provided 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.	is installed at belt conveyor system and exchange points by deployment of 01 no. of mist canon system having 100 m throw for the dust suppression in the mobile crusher system and Drills are wet operated and are fitted with dust collectors during drilling. <b>(Annexure-17)</b>												
(vii)	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmentally friendly implemented for mitigating such parameters.	<b>Complied.</b> CHP hasn't been constructed yet. Adequate dust suppression arrangement will be put into operation once it comes up. At present, mist and water spraying system are provided at belt conveyor system and exchange points by deployment of 01 no. of mist canon system having 100 m throw for the dust suppression near to the mobile crusher system. <b>(Annexure-18)</b> Regarding Fugitive dust monitoring, it is submitted that as per CMR 123 of 1957, 8 hour weighted work zone standard for fugitive emission is 3000 µg/m3. Fugitive dust monitoring is carried out at. Singhori OCM-Coal Stock-NSOF-1 Singhori OCM-Weighbridge-NSOF-2  Fugitive dust concentration report for the period July 2022 is given below: <table><tr><td>Monitoring stations</td><td colspan="2">Concentration (24 hourly values in µg/m3)</td></tr><tr><td></td><td>SPM</td><td>STD</td></tr><tr><td>CHP</td><td>329</td><td>3000 (as per CMR, 1957)</td></tr><tr><td>Weighbridge</td><td>304</td><td></td></tr></table> <b>(Reports: Annexure-12).</b>	Monitoring stations	Concentration (24 hourly values in µg/m3)			SPM	STD	CHP	329	3000 (as per CMR, 1957)	Weighbridge	304	
Monitoring stations	Concentration (24 hourly values in µg/m3)													
	SPM	STD												
CHP	329	3000 (as per CMR, 1957)												
Weighbridge	304													
(C)	Water quality monitoring and preservation													
(i)	The effluent discharge (mine wastewater, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards	<b>Complied.</b>  The quality of mine pumped out water is being monitored fortnightly by CMPDIL, RI-IV, Nagpur and the reports are submitted to												

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	<p>vide GSR 742 (E) dated 25<sup>th</sup> September 2000 and as amended from time by the Central Pollution Control Board.</p>	<p>RO, MoEF &amp; CC and SPCB regularly. In Singhori OC, a sump has been provided with adequate capacity of 63 million gallons with retention period of 12hrs to allow proper settling of silt material before pumping it onto surface sedimentation tanks of 60 m (L) * 30 m (B) * 1.2 m (D), for further treatment. The treated mine pumped out water is being utilized within the mine premises for maintenance of greenbelt &amp; dust suppression etc. and the surplus water is discharged into nallah/Kanhan river.</p> <p>Water Quality Monitoring Station. 1.NSOW-1 Mine Water discharge. A copy of the last one-year monitoring report of mine discharge is attached. <b>(Annexure-12)</b> Additionally, a copy of the mine water analysis report (third party) from a MoEF&amp;CC certified agency is attached as <b>Annexure-19.</b></p>
(ii)	<p>The monitoring data shall be uploaded on the company's website and displayed at the project site at a suitable location. The circular No.J-20012/1/2006-IA.11 (M) dated 27<sup>th</sup> May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.</p>	<p><b>Complied.</b></p> <p>Environmental monitoring reports are being uploaded onto company's website regularly at link - <a href="http://www.westerncoal.in/index1.php/StaticPage/153">http://www.westerncoal.in/index1.php/StaticPage/153</a> <b>(Annexure-20)</b></p>
(iii)	<p>Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.</p>	<p><b>Complied.</b></p> <p>Monitoring of ground water level in core and buffer zone is carried out four times in a year and water quality analysis is done once in a year by establishing a network of the existing wells. Additionally, two nos. of the piezometers are fitted with Digital Water Level recorder with and without telemetry system (deep and shallow) are in operation to monitor the impact of mining on ground water level in core zone. Moreover, quality of ground water is being monitored by NABL accredited lab on fortnightly basis. A copy of the report is attached and is regularly submitted to RO, MoEF&amp;CC and MPCB Office.</p>

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		<b>(Annexure-21)</b>
<b>(IV)</b>	<b>Monitoring of water quality upstream and downstream of water bodies shall be carried out once in six months and record of monitoring data shall be maintained and submitted to the Ministry of Environment, Forest and Climate Change / Regional Office.</b>	<p><b>Complied.</b></p> <p>Kanhan River passes about 250 m away from the project through western direction of the mine. Monitoring of water quality in the upstream and downstream of Kanhan River is being done.</p> <p>Analysis reports are being submitted to IRO, MoEF&amp;CC and SPCB on regular basis.</p> <p>Latest Monitoring reports are enclosed <b>(Annexure-22).</b></p>
<b>(v)</b>	<b>Ground water, excluding mine water, shall not be used for mining operations. Rainwater harvesting shall be implemented for conservation and augmentation of ground water resources.</b>	<p><b>Complied.</b></p> <p>PP informed that no ground water, other than pumped water from mine is being used for meeting the industrial demand viz. dust suppression, plantation etc. No ground water is used for extraction of coal or evacuation of OB/Soil is being used for mining operation.</p> <p>Water conservation measures implemented in project are Roof top rainwater harvesting system has been installed at the Office of the Sub Area Manager, Mine Manager, Sub stations and hostel building etc. for conservation and augmentation of ground water resources.</p> <p><b>(Annexure-23)</b></p> <p>Additionally, out of total land of 425.04 ha, only 96.50 Ha is in use for excavation 160 ha for OB dumping, 40 ha for embankment and infrastructure which comes to about 70% of the total land. The remaining land of 30 Ha is still untouched and serving as a water recharge structures.</p> <p>The level of the ground water and the wells in buffer zone is being monitored continually round the year at quarterly interval. Reports attached.</p> <p><b>(Annexure-24)</b></p>

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(vi)	<p><b>Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps &amp; OB dumps to prevent run off of water and flow of sediments directly into river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains. The drains/ponds so constructed shall be regularly de-silted particularly before onset of monsoon and maintained properly. Sump capacity should provide adequate retention period to allow proper settling of silt material. The water so collected in the sump shall be utilized for dust suppression and green belt development and other industrial use. Dimension of the retaining wall constructed, if any at the toe of the OB dumps within the mine to check run-of 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.</b></p>	<p><b>Complied.</b></p> <p>To arrest the silt, catch drains of size 1850 m(L) x 21 m (W) x 03 m (D) has been constructed around the OB dump and quarry to arrest flow of silt and sediments into natural water course. The drains &amp; sedimentation ponds are desilted periodically &amp; maintained properly especially onset of monsoon.</p> <p>Further, one no. of Garland drain having size 1100 m (L) x 20 m (W) x 3 m (D) has also been provided around the dump has been designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mines site.</p> <p>The accumulated water after proper settling of silt material is reused internally.</p> <p>For collection and treatment of strata water seepage, cross drains are construction for directing the strata seepage towards mine sump at quarry floor area. In Singhori OC, a sump has been provided with adequate capacity of 63 million gallons with retention period of 12hrs to allow proper settling of silt material before pumping it onto surface sedimentation tanks of 60 m (L) * 30 m (B) * 1.2 m (D), for further treatment.</p> <p>The treated mine pumped out water is being utilized within the mine premises for maintenance of greenbelt&amp; dust suppression etc. and the surplus water is discharged into nallah/Kanhan river.</p> <p>Till date, 86,500 nos. of saplings planted covering an area of 36.6 Ha. The following native species are planted: Ganga Imli, Amla, Neem, Karang, Pipal, kachnar, Acasia, Sisoo, peltform, Raintree, Safedsiras, Gulmohar, Casia, Saptparni, etc.</p> <p>The plantation programmed has been carried out by State expert agency MPRVVN with maintenance of 4 years after the year of plantation.</p>
(vii)	<p><b>Adequate groundwater recharge measures shall be taken up for</b></p>	<p><b>Complied.</b></p>

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	<p><b>augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).</b></p>	<p>Roof top rainwater harvesting system has been installed at the Sub Area Manager office building, Mine Manager Office, Sub Station office &amp; hostel building.</p> <p>Further, it may be mentioned here that, the leftover mine voids after life of mine will act as water body &amp; rainwater harvesting structures helping in water conservation &amp; in improving groundwater levels.</p> <p>WCL is committed to provide the water to nearby villagers. At present, the excess treated mine pumped out water discharged to local streams/ nallah is being used by the neighboring community for irrigation purposes after treatment through sedimentation tank.</p>
(viii)	<p><b>Industrial wastewater generated from CHP, workshop and other waste water, shall be properly collected and treated so as to conform to the standards prescribed under the standards prescribed under Water Act 1974 and Environment (Protection) Act, 1986 and the Rules made there under, and as amended from time to time. Adequate ETP/STP needs to be provided.</b></p>	<p><b>Complied.</b></p> <p>The quality of mine pumped out water is being monitored fortnightly by CMPDIL, RI-IV, Nagpur and the reports are submitted to RO, MoEF &amp; CC and SPCB regularly. In Singhori OC, a sump has been provided with adequate capacity of 63 million gallons with retention period of 12hrs to allow proper settling of silt material before pumping it onto surface sedimentation tanks of 60 m (L) * 30 m (B) * 1.2 m (D), for further treatment. The treated mine pumped out water is being utilized within the mine premises for maintenance of greenbelt &amp; dust suppression etc. and the surplus water is discharged into nallah/Kanhan river.</p> <p>A copy of the last one-year monitoring report of mine discharge is attached.</p> <p><b>(Annexure-19)</b></p> <p>As, the mine is being operated under HoE, there is no township for employees in the mine premises, no sewage is generated and eliminate the need of the sewage treatment plant.</p> <p>Regular monitoring of treated mine discharge water is being carried out on fortnightly by CMPDIL, RI-IV, Nagpur and reports are being submitted to IRO, MoEF</p>

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		& CC and SPCB on regular basis.
(ix)	<b>The water pumped out from the mine, after siltation, shall be utilized for industrial purpose viz watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.</b>	<p><b>Complied,</b></p> <p>The mine discharge water is treated initially in the sump at quarry floor area (63 million Galleons capacity) and then pumped onto the surface sedimentation tanks of size of 60 m (L) * 30 m (B) * 1.2 m (D) for secondary treatment before utilized for industrial purposes viz. water sprinkling in the mine area, roads, green belt development etc.</p> <p>The catch drains/garland drains area regularly de-silted before onset on monsoon as a part of monsoon preparedness.</p> <p>The mine pumped out water is being utilized within the mine premises for watering of plants &amp; spraying on haul roads etc. &amp; only after passing it through the sedimentation tank having size of 60 m (L) * 30 m (B) * 1.2 m (D), the surplus water is discharged into nallah/Kanhan river. The drains &amp; sedimentation pond are desilted periodically &amp; maintained properly.</p> <p><b>(Photo of the sedimentation tank attached as Annexure- 25).</b></p>
(x)	<b>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet /pond/lake etc. shall be prepared and implemented by the project proponent. The surface drainage plan and /or any diversion of natural water courses shall be as per the approved Mining Plan /EIA/EMP report and with due approval of the concerned State /Gol Authority. The construction of embankment to prevent any danger against inrush of surface water into the mine should be as per the approved Mining Plan and as per the permission of DGMS or any other</b>	<p><b>Complied.</b></p> <p>As per approved mining plan of the project, there are no surface water bodies like river/pond/lake in the project area and also there is no diversion of natural water courses. Further, as per statute, the mining is being carried out at a safe distance of 45-meter from (the cutting edge) nallah/ river flowing within the lease boundary.</p> <p>In addition to this mine embankment has been constructed having dimensions of length of 800 m, top width 20 m, bottom width 30 m &amp; height of 6m from HFL.</p> <p>As per the MOU signed between WCL &amp; MPRVN, the work regarding to the plantation of 86,500 nos. of various plants has been successfully completed in 2018-</p>

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	authority as prescribed by the law.	19 , FY 2019-20 & FY 2021-22 by the MPRVVN, Chindwara with maintenances work for coming 04 years. Name of species planted during are Ganga Imli, Amla, Neem, Karang, Pipal,kachnar, Acasia, Sisoo, peltform, Raintree,Safedsiras, Gulmohar, Casia, Saptparni,etc.
(xi)	<b>The project proponent shall take all precautionary measures to ensure riverine / riparian ecosystem in and around the coal mine up to a distance of 5 km. A rivarine / riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.</b>	<p><b>Complied.</b></p> <p>In view of the mining potential of the area and the prevailing environmental concerns, a study related to the carrying capacity of riverine eco system of Kanhan river was carried out for Gondegaon OCM by CMPDI to assess impacts on the environmental components. It was observed that five coal mines named Kamptee Deep OCM, Inder UG to OC, Singhori OCM, Bhanegaon OCM and Gondegaon OCM (WCL) and two thermal power plants (MAHAGENCO) were also existed along Kanhan river basin and it was concluded in the study that the riverine ecosystem in the study area is having enough carrying capacity, both in terms of supportive and assimilative capacity, to support the development and ecosystem of the area.</p> <p><b>(Annexure-59)</b></p> <p>River passes about 250 m away from the project through western direction of the mine. Precautionary measures are taken to ensure riverine / riparian ecosystem in and around the coal mine.</p> <p>Additionally, monitoring of water quality in the upstream and downstream of Kanhan River is being done bi-annually and analysis reports are being submitted to IRO, MoEF&amp;CC and SPCB on regular basis.</p> <p>Monitoring reports are enclosed <b>(Annexure-12&amp; Annexure-22).</b></p>
(d)	<b>Noise and Vibration monitoring and prevention.</b>	
(i)	<b>Adequate measures shall be taken for control of noise levels as per Noise Pollution Rules, 2016 in the work environment. Workers engaged in blasting and drilling operations,</b>	<p><b>Complied.</b></p> <p>Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of</p>

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	<p>Operation of HEMM, etc. shall be provided with personal protective equipments(PPE) like ear plugs/muffs in conformity with the prescribed norms and guidelines in this regard. Adequate awareness programme for users to be conducted. Progress in usage of such accessories to be monitored.</p>	<p>HEMM, etc. are being provided with PPE like Ear plugs/ muffs etc. with personal protective equipments. Regular awareness programme for training and retraining of workers are also conducted in vocational training center.</p> <p>Details of VTC training are as follows:</p> <table border="1"> <thead> <tr> <th>Year</th><th colspan="2">VTC</th></tr> <tr> <th></th><th>Contractual</th><th>Departmental</th></tr> </thead> <tbody> <tr> <td>2017-18</td><td>61</td><td>26</td></tr> <tr> <td>2018-19</td><td>37</td><td>16</td></tr> <tr> <td>2019-20</td><td>39</td><td>02</td></tr> <tr> <td>2020-21</td><td>11</td><td>302</td></tr> <tr> <td>2021-22</td><td>293</td><td>40</td></tr> </tbody> </table> <p>(Annexure-26)</p>	Year	VTC			Contractual	Departmental	2017-18	61	26	2018-19	37	16	2019-20	39	02	2020-21	11	302	2021-22	293	40
Year	VTC																						
	Contractual	Departmental																					
2017-18	61	26																					
2018-19	37	16																					
2019-20	39	02																					
2020-21	11	302																					
2021-22	293	40																					
(ii)	<p>Controlled blasting techniques shall be practiced in order to mitigate ground vibrations, fly rocks, noise and air blast etc, as per the guidelines prescribed by the DGMS.</p>	<p><b>Complied.</b></p> <p>Controlled blasting is practiced as per DGMS permission. Copy of the permission from DGMS along with under taking attached as <b>Annexure-27</b>).</p>																					
(iii)	<p>The noise level survey shall be carried out as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard shall be submitted to the Ministry/RO on six-monthly basis.</p>	<p><b>Complied.</b></p> <p>Controlled blasting techniques with use of delay detonators are practiced during daytime to control ground vibration and to arrest the fly rocks. Controlled Blasting Technique as permitted by DGMS is being adopted. Further, regarding the noise level monitoring covering working areas such as drilling at active mine bench and ground vibration reports and the records are accordingly maintained at project level for routine inspection by DGMS officials as per Mines Act, 1952.(<b>Annexure-28</b>)</p> <p>Noise level monitoring is carried out regularly on fortnightly basis at different locations covering core &amp; buffer zones and the reports are submitted to RO, MoEF &amp;CC on regular basis. The monitoring stations are as below:</p> <p>NSON-1-Contractor camp.</p>																					

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		2.NSON-2-Sohali Village 3.NSON-3-New drilling site 4.NSON-4-Near Doasing site (Annexure-12).
(e)	<b>Mining Plan</b>	
(i)	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	<b>Complied.</b>  Mining operations are being carried out and continue to be carried out as per provision of Mine Act 1952 ad no deviation is being made during operations. Copy of the permission from DGMS attached as (Annexure-29).
(ii)	Mining shall be carried out as per the approved mining plan (including Mine Closure Plan) abiding by mining laws related to coal mining and the relevant circulars issued by Directorate General Mines Safety (DGMS).	<b>Complied.</b>  Mining operations are being carried out as per mining plan by abiding all the mining rules and DGMS guidelines issued time to time and will continue to be carried out accordingly. (Annexure-30).
(iii)	No mining shall be carried out in forest land without obtaining Forest Clearance as per Forest (Conservation) Act,1980.	<b>Complied.</b>  Project Proponent has obtained Forest Clearance (FC) from MoEF&CC, Nagpur vide letter no F.No-MHC 026/2014-BHO/2887 dated 20.11.2017 (stage-I) and F.No 6-MHC 026/2014-BHO/3996 dated 31.07.2018 (stage-II) in favor of M/s. Western Coalfields Limited for diversion of 14.23 ha of Zupdi Jungle under Forest (Conservation) Act,1980.(Annexure-31).
(iv)	<b>Efforts should be made to reduce energy and fuel consumption by conservation,efficiency improvements and use of renewable energy.</b>	<b>Complied.</b>  All efforts are being made to reduce energy and fuel consumption by energy conservation & making improvement in efficiency and use of renewable energy such as: (i) A rooftop solar system of 80 KW has been installed at Nagpur Area HQ office building & residential buildings. (ii) Additionally, a solar power plant of 70 KW is installed at Bhanegaon Singhori Sub Area Manager Office near Singhori OCM. (iii) For improvement in energy efficiency, all light bulbs are replaced by LED bulbs.

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		<p><b>(Photo: Annexure-32)</b></p> <p>As far as fuel consumption is concerned, PP submitted that, installation of pipe conveyor has been underway for transportation of coal from mine to thermal power plants, which will save thousand liters of diesel used for coal transportation and fossil fuel directly contributing in the nation's economy and reduction in the air pollution due to transportation of coal and generation of fossil fuel.</p> <p>For more details, please refer 4.b(iii)</p>
<b>(f)</b>	<b>Land reclamation</b>	
<b>(i)</b>	<p><b>Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey shall be carried out at least once in three years for monitoring land use pattern and report in 1:50,000 scale or as notified by Ministry of Environment Forest and Climate Change (MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).</b></p>	<p><b>Complied.</b></p> <p>Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is carried out once in three years. Latest survey has been done in the year 2019 and report submitted on Feb 2020 is attached as <b>(Annexure-33)</b>.</p> <p>The reports are submitted to Regional Office of Ministry of Environment, Forest and Climate Change and the same are uploaded onto the company's website link- <a href="http://www.westerncoal.in/index1.php/StaticPage/155">http://www.westerncoal.in/index1.php/StaticPage/155</a>.</p> <p><b>(Annexure-34).</b></p>
<b>(II)</b>	<p><b>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 aquatic life therein. Therein, the remaining area shall be backfilled and covered with thick and alive top soil, post-mining land be rendered usable for agricultural/forestry purposes and shall be diverted. Further action will be treated as specified in the guidelines for Preparation of Mine Closure Plan issued by the Ministry of Coal 27<sup>th</sup> August 2009 and subsequent amendments.</b></p>	<p><b>PP has consented to condition.</b></p> <p>The mine has started its operation in FY 2017-18 and at present is in its 6<sup>th</sup> year of operation. The progress of mining activities is being carried out as per approved mining plan. The Mine Closure Plan is an integral part of the approved Mining Plan. The post mining land use will be as per approved reports. As per the approved mining plan, mine closure plan and Addendum EIA/EMP, total final mine void would be in 96.50 ha with depth of 150 m against the total quarry area is 96.50 ha. No Backfilling will be made in quarry area. Final mine void will be covered into water body. The Project has two nos. of dumps in an area of 160 Ha. (135 ha.-external OB dump &amp; 25 ha.-top soil dump) with 5mt height and (58.73</p>

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		<p>Mm<sup>3</sup>-external OB dumps &amp; 5.56 Mm<sup>3</sup> soil dumps) Mm<sup>3</sup> of OB. The OB from the current mining operation will not be backfilled. No internal OB dump is envisaged in the project.</p> <p>The land after completion of all closure activities and re-imbursement of corpus deposited appropriate action for handling over the land will be taken. A mine closure plan was approved by the WCL Board along with opening of account no. 323203800000470 at Union bank, Gandhi Bagh Nagpur. The total fund available in account as on date is Rs. 18,75,58,591.00 as on 31.03.2022.</p> <p><b>Annexure-35).</b></p> <p>Post Mining land will be made usable for agricultural /forestry purposes and shall be handed over to the respective State Government as per the Final Mine Closure Plan. Till date, there is no backfilling.</p>
(iii)	<p>The entire excavated area, backfilling, external OB dumping (including top soil) and afforestation plan shall be in conformity with the “during mining” / post mining” land-use pattern, which is an integral part of the approved Mining Plan and the EIA/EMP submitted to this Ministry. Progressive compliance status vis-a-vis the post mining land use pattern shall be submitted to the MOEFCC/RO.</p>	<p><b>Complied.</b></p> <p>The excavation, external OB dumping, plantation etc. is being carried out as per the approved Mining Plan in conformity with the submitted mining land use plans &amp; EIA-EMP submitted to MoEF&amp;CC.</p> <p>Six monthly EC compliance is regularly submitted to Ministry of Environment, Forest &amp; Climate Change, Regional Office, Nagpur which comprises data sheet with data excavated area, backfilling, external OB dump including top soil and afforestation data.</p> <p><b>(Annexure-36).</b></p>
(iv)	<p>Fly ash shall be used for external dump of overburden, backfilling or stowing of mine as per provisions contained in clause (i) and (ii) of subparagraph (8) of fly ash notification issued vide SO 2804 (E) dated 3<sup>rd</sup> November, 2009 as amended from time to time, Efforts shall be made to utilize gypsum generated from Flue Gas Desulfurization (FGD), if any, along with fly ash for external dump of overburden, backfilling of mines. Compliance report shall be</p>	<p><b>PP has consented to condition.</b></p> <p>PP has noted for compliance with due course of time.</p> <p>Stowing is not applicable in Opencast coal mines.</p>

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	submitted to Regional Office of MoEF &CC, CPCB and SPCB.	
(v)	Further, it may be ensured that as per the time schedule specified in mine closure plan it should remain live till the point of utilization. The topsoil shall temporarily be stored at earmarked site(S) only and shall not be kept unutilized. The topsoil shall be used for land reclamation and plantation purpose. Active OB dumps shall be stabilized with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest, and Climate Change/Regional Office.	<p><b>PP has consented to condition.</b></p> <p>At present, topsoil and hard soil is stored at earmarked site(s) separately only and topsoil will be used for land reclamation and plantation purposes during mine closure. Further, the excavated area will be backfilled with due in line with the approved Mine Closure Plan. Reports are being submitted to the said office regularly and on time. The surface layout plan showing OB &amp; Topsoil dumps is enclosed as <b>(Annexure 55)</b>.</p>
(vi)	The project proponent shall make necessary alternative arrangements, if grazing land is involved in core zone, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, the project proponent shall implement the directions of Hon'ble Supreme Court with regard to acquiring grazing land.	Not applicable on as no grazing land is involved in the project area.
(g)	<b>Green Belt</b>	
(i)	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered/endemic flora/fauna, if any, spotted/reported in the study area. The Action plan in this regard, if any, shall be prepared and implemented in consultation with the State Forest and Wildlife Department.	Not Applicable on project as no endangered/endemic flora/fauna has spotted, so far.

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(ii)	Greenbelt consisting of 3-tier plantation of width not less than 7.5 m shall be developed all along the mine lease area as soon as possible. The green belt comprising a mix of native species (endemic species should be given priority) shall be developed all along the major approach/Coal transportation roads.	<p><b>Complied.</b></p> <p>A 3-tier plantation of width not less than 7.5 m has been developed along the mine lease area on the mine embankment, where a coal transportation road has been constructed.</p> <p>Till date, 86,500 nos. of saplings planted within the ML area covering an area of (approx.). 36.6 ha Plantation program is carried out through State expert agencies (MPRVVN) with 4 years maintenance after year of plantation.</p> <p>The following native species are planted: Ganga Imli, Amla, Neem, Karang, Pipal, kachnar, Acasia, Sisoo, peltform, Raintree, Safedsiras, Gulmohar, Casia, Saptparni, etc and project authority is committed for further rest of the plantation as per EMP in the succeeding years.</p> <p><b>(Annexure-56).</b></p>
(h)	<b>Public hearing and Human health issues.</b>	
(i)	Adequate illumination shall be ensured in all mine locations (as per DGMS standards) and monitored weekly. The report on the same shall be submitted to this Ministry & it's RO on six –monthly basis.	<p><b>Complied.</b></p> <p>Illumination has been maintained as per new CMR guidelines. Latest illumination report attached as <b>(Annexure-37)</b></p>
(ii)	The project proponent shall undertake occupational health survey for initial and periodical medical examination of the personnel engaged in the project and maintain records accordingly as per the provisions of the Mines Rules, 1955 and DGMS CIRCULARS. Besides regular periodic health check-up, 20% of the personnel identified from workforce engaged in active mining operation shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time.	<p><b>Complied.</b></p> <p>Personal working in dusty areas is provided with dust masks. Periodical health check-up of mine workers are carried out once in 5 years with the purpose of detecting occupational diseases &amp; hearing impairment. Every worker in the mine is examined in 5 years- up to the age of 45; the workers who are above 45 years are subjected to periodic medical examination at three years interval.</p> <p>Area Hospitals such as J N Hospital and Walni Hospital is having 50*2 total 100 nos. of bedding capacity.</p> <p>At present, since opening no such occupational diseases and or hearing impairment has been recorded. Year wise PME/IME details are as below</p>

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		<table><tr><th>Year</th><th>PME (Employee)</th><th>PME (Contractual workers)</th><th>IME (Contractual workers)</th></tr><tr><td>2019</td><td>59</td><td>0</td><td>87</td></tr><tr><td>2020</td><td>62</td><td>0</td><td>107</td></tr><tr><td>2021</td><td>0</td><td>0</td><td>4</td></tr><tr><td>2022</td><td>26</td><td>19</td><td>61</td></tr><tr><td>Total</td><td>147</td><td>19</td><td>259</td></tr></table> <b>(Annexure 5).</b>	Year	PME (Employee)	PME (Contractual workers)	IME (Contractual workers)	2019	59	0	87	2020	62	0	107	2021	0	0	4	2022	26	19	61	Total	147	19	259									
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Total	147	19	259																																
(iii)	<b>Personnel (including outsourced employees) working in core zone shall wear protective respiratory devices and shall also be provided with adequate training and information on safety and health aspects.</b>	<b>Complied.</b> Personnel working (including outsourcing employee) in dusty areas provided with protective respiratory devices and advised to wear the same during the work. Details for distribution of PPE kit in FY 21-22 is as follows: <table><tr><th>Sr no</th><th>PPE Equipment</th><th>Nos. Distributed</th></tr><tr><td>1</td><td>First Aid Kit</td><td>42</td></tr><tr><td>2</td><td>Helmet</td><td>195</td></tr><tr><td>3</td><td>Earmuffs</td><td>59</td></tr><tr><td>4</td><td>Masks</td><td>1954</td></tr><tr><td>5</td><td>Florescent jackets</td><td>362</td></tr><tr><td>6</td><td>Life Jackets</td><td>28</td></tr><tr><td>7</td><td>Water Bottle</td><td>365</td></tr><tr><td>8</td><td>Mining Shoes</td><td>965</td></tr><tr><td>9</td><td>Gum Boot</td><td>199</td></tr><tr><td>10</td><td>Goggles</td><td>48</td></tr></table> Safety awareness programme& training are conducted regularly for personnel of the project. <b>(Annexure-38).</b>	Sr no	PPE Equipment	Nos. Distributed	1	First Aid Kit	42	2	Helmet	195	3	Earmuffs	59	4	Masks	1954	5	Florescent jackets	362	6	Life Jackets	28	7	Water Bottle	365	8	Mining Shoes	965	9	Gum Boot	199	10	Goggles	48
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(iv)	<b>Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the</b>	<b>Complied.</b>  The issues raised during the public hearing are being properly addressed. Land																																	

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	tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land outsees shall be compensated as per the norms laid down in the R&R policy of the company / State Government / Central Government, as applicable.	<p>outsees has being compensated and employment has been given to all the eligible persons as per R&amp;R policy. All the guidelines will be adhered from time to time framed by Government body in future. Details up to September, 2022.</p> <p>Employment – 105 nos.</p> <p>Monetry Compensation given to – 54 nos.</p> <p>Land compensation paid – 14.925 crores</p> <p>Land outsees has been compensated as per the norms laid down in the R&amp;R policy of the company.</p> <p>Tenancy land compensation- 305.7 Ha (as per new rate)- is Rs. 71.25 Cr.</p> <p>Land compensation given for 5.50 Ha Govt land -Rs. 2.77 Cr.</p>
(v)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No. Z-11013/5712014-IA.II (M) dated 29 <sup>th</sup> October, 2014, titled 'Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease areas or habitations and villages are surrounded by the mine lease area.	<p><b>Not applicable on current mine lease area and PP consented to the condition in future, if required.</b></p> <p>No habitation and villages are part of mine lease areas or surrounded by mine lease area. A copy of the mine working plan showing mine lease area is attached as (Annexure-39).</p>
(i)	<b>Corporate Environment Responsibility</b>	
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	<p><b>Not applicable.</b></p> <p>The expansion of Singhori OC from 0.80 MTPA to 1.12 MTPA does not involve any additional capital investment. Please refer condition no 6(IX) of OM dated 01.05.2018 which state that."CER is not applicable in name change, transfer and amendment involving no additional project investment. In case of amendment in EC involving additional expenditure, CER will be applicable only on the additional expenditure as per column-IV of the table given in para 6(II) above".</p> <p><b>(Annexure 40).</b></p>
(ii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating	<p><b>Complied.</b></p> <p>The Coal India Limited Corporate Environment Policy 2019 duly followed WCL is attached as <b>(Annexure-41).</b></p>

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	<p>procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental /forest / wildlife norms / conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms / conditions and /or shareholders/ stake holders.</p>	
(iii)	<p><b>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</b></p>	<p><b>Complied.</b></p> <p>There exists a three-tier environment management set up in WCL as detailed below:</p> <p><u>At HQ, WCL-</u> The cell is headed by GM (Env) reporting to Director Technical. The team comprises of multi-disciplinary trained executives.</p> <p><u>At Area level</u> – Area General Manager heads the Environment Department assisted by GM (Opn), &amp; Area Nodal Officer (Environment) of Environment discipline.</p> <p><u>At Unit Level</u>-Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level. Organizational chart of the Company at link - <a href="http://www.westerncoal.in/index1.php/StaticPage/123">http://www.westerncoal.in/index1.php/StaticPage/123</a> attached as <b>(Annexure-42)</b></p>
(iv)	<p><b>Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the</b></p>	<p><b>Being complied.</b></p> <p>The funds earmarked for environment protection measures are kept in separate account and it is not used for any other purpose. Expenditure statement is shown in every six-monthly compliance report sent to MoEF&amp;CC. <b>(Annexure-43)</b></p> <p>Capital Expenditure till 30/09/2022 is Rs. 78.80 lakhs</p>

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	<b>Ministry/Regional Office along with the Six-Monthly Compliance Report.</b>	Revenue Expenditure till 31/03/2022 is Rs. 166.14 lakhs. A copy of the last three financial year environmental expenditure is attached as <b>(Annexure-44)</b>
(v)	<b>Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.</b>	<p><b>PP has consented to condition.</b></p> <p>Self-internal environmental audit system has been setup in the company recently. At Area level, a multi-disciplinary committee has been constituted by order of competent authority to review the compliance status every month through a formatted checklist. Inter-area inspection to review compliance status is being done on quarterly basis. The report of the inspection is put up to the subsidiary level apex committee which has been constituted under the chairmanship of Director (Technical), WCL. Mechanism for internal monitoring of EC compliance is enclosed as <b>(Annexure- 45)</b></p> <p>Since, EC for this mine has been accorded in Aug 2019 and accordingly mine is eligible for third party environment audit after Sept. 2022, which will be ensured very shortly through agency like ICFRI / NEERI / IIT or any other agency identified by the Ministry.</p>
<b>(j)</b>	<b>Miscellaneous</b>	
(i)	<b>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in tow local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</b>	<p><b>Complied.</b></p> <p>PP has given advertisement in two news papers Advertisements are published in two Local News Papers: 1) HITVADA (English) dated 28.08.2019. 2) PUNYA NAGRI (Marathi) dated 28.08.2019. <b>(Annexure- 46)</b></p>
(ii)	<b>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies. Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days</b>	<p><b>Complied.</b></p> <p>A copy of the receiving from Gram Panchayat is attached.  <b>(Annexure- 47)</b></p>

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	from the date of receipt.	
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	<p><b>Complied.</b></p> <p>Copy of EC has been uploaded on company website at link- <a href="http://www.westerncoal.in/index1.php/StaticPage/154">http://www.westerncoal.in/index1.php/StaticPage/154</a></p> <p><b>(Annexure- 48)</b></p> <p>A copy of six monthly has also been uploaded. <b>(Annexure- 49)</b> at link- <a href="http://www.westerncoal.in/index1.php/StaticPage/155">http://www.westerncoal.in/index1.php/StaticPage/155</a></p>
(iv)	The project proponent shall monitor the criteria pollutants level namely, PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (ambient levels) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	<p><b>Complied.</b></p> <p>CAAQMS installed at Singhori OCM and results are displayed by installing LED on the roof of the CAAQMS room and also available on Company website at link- <a href="http://www.westerncoal.in/index1.php/StaticPage/153">http://www.westerncoal.in/index1.php/StaticPage/153</a></p> <p>(CAAQMS photos attached as <b>Annexure- 50</b>)</p>
(v)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest, & Climate at environment clearance portal.	<p><b>Complied.</b></p> <p>Submitted report covering letter and emails are enclosed as <b>(Annexure- 51)</b></p>
(vi)	The project proponent shall follow the mitigation measures provided in this Ministry's OM No Z-11013/5712014-IA. II (M) dated 29 <sup>th</sup> October, 2014. Impact of mining activities on habitations-issues related to the mining projects wherein habitations and villages are the part of mine lease area or habitations and villages are surrounded by the mine lease area.	<p><b>Not applicable on current mine lease area but PP has consented to condition, if required.</b></p> <p>No habitation and villages are part of mine lease areas or surrounded by mine lease area. A copy of the mine working plan showing mine lease area is attached as <b>(Annexure-39)</b></p>
(vii)	The project proponent shall submit the environment statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986,	<p><b>Complied.</b></p> <p>The Environmental Statement for each financial year is filled online in Form-V before 30th September of each year for onward submission to Maharashtra</p>

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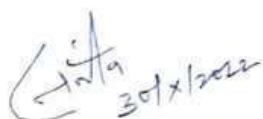
	as amended subsequently and put on the website of the company.	<p>Pollution Control Board. Acknowledge receipt for the Environmental Statement for FY 2020-21 and FY 21-22 is attached as <b>(Annexure-52)</b>.</p> <p>The audit statement is also uploaded on company website at link-  <a href="http://www.westerncoal.in/index1.php/StaticPage/265">http://www.westerncoal.in/index1.php/StaticPage/265</a>  <b>(Annexure-53)</b>.</p>
(viii)	The project authorities shall inform to the Regional Office of the MOEF&CC regarding commencement of mining operations.	<p><b>Complied.</b></p> <p>PP informed to the IRO, Nagpur with the submission of Six-monthly report regarding commencement of project.</p>
(ix)	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	<p><b>Complied.</b></p> <p>Consent to Establish and Operate has been obtained from Maharashtra Pollution Control Board, Mumbai by PP and attached as <b>(Annexure-54)</b></p>
(x)	The project proponent shall abide by all the commitments and recommendations made in the EIA / EMP report, commitment made during Public Hearing and that during their presentation to the Expert Appraisal Committee.	<b>PP has consented to condition.</b>
(xi)	No further expansion or modifications in the plant shall be carried out without prior approval of the-Ministry of Environment, Forests and Climate Change.	<b>PP has consented to condition.</b>
(xii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act,1986.	<b>PP has consented to condition.</b>
(xiii)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	<b>PP has consented to condition.</b>
(xiv)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	<b>PP has consented to condition.</b>

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(xv)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	PP has consented to condition.
(xvi)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution b) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	PP has consented to condition.



**(Sanjeev Agarwal)**  
**Sub Area Manager,**  
**Dy. GM (Min)/Sub Area Manager,**  
**Bhanegaon-Singhori Sub Area,**  
**Western Coalfield Limited, Nagpur Area**



**(Saroj Shrivastava)**  
**Mine Manager,**  
**Expansion of Singhori Opencast Mine,**  
**Bhanegaon-Singhori Sub Area,**  
**Western Coalfield Limited, Nagpur Area**

