

Compliance of Conditions

**DHOPTALA OCM(Project)**

A) Specific Conditions

Sr.No.	Conditions	Compliance
i)	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strenthened by stone pitching on the river front side and stablised With plantation so as to withstand the peak water flow and prevent mine inundation	Noted. Embankment has already been stabilised with plantation.
ii)	There shall be no overflow of OB in to the river and in to agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project	Noted and will be complied. Embankment between the river and project already been stabilised with plantation.
iii)	OB shall be stacked at two earmarked external OB dump site (S) only. The ultimate slope of the dump shall not exceed 28 degree.monitoring and management of existing reclaimed dumpsites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the ministry of environment and forest and its regional office located at bhopal on yearly basisof OB dump should be carried out so that the overall slope shall not exceed 28 degree. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status	OB will be stacked at two earmarked OB dump sites during life of mine. . In addition once the dumps get inactive, biological reclamation shall also be carried. Compliance status will be submitted along with six monthly compliance reports.

	should be submitted to the ministry of Environment & Forests on six monthly basis	
Iv)	<p>Catch drain and siltation pond of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desisted and maintained properly.</p> <p>Garland drains (size gradient and length) and sump capacity should be designed keeping 50 % safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity should be also provided adequate retention periods to allow proper settling of site materials.</p>	Noted and will be complied.
V	<p>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation should be based on rainfall data.</p>	<p>Adequate protective measures shall be taken at the toe of the dump for checking run-off and siltation through construction of garland drains around the periphery of dumps. These drains shall be cleaned and desilted before onset of every monsoon. In addition once the dumps get inactive, biological reclamation shall also be carried which will further arrest flow of silt and sedimentation from OB dumps. Further retaining wall (Boulder Masonry) will be built to prevent silt flowing into water courses or agricultural field.</p>

Vi	Crushers of the CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters, water sprinkling system shall be provided to check fugitive emission from crushing operations , conveyor system, haulage roads,transferpoints,etc.	Appropriate dust control measures shall be installed at CHP after its consruction with mist spray system to check fugitive emission. Similarly along the conveyor and also at all transfer points appropriate water spraying system shall be installed.
Vii	Drills shall be wet operated.	Drills are wet operated.
viii	The project authorities' shall undertake regular repairing and tarring of roads used for mineral transportation .A 3-tier green belt comprising of a mix of native species shall be developed all along the major approach road	04 Km of Black topped coal transportation road provided. Regular repairing will be undertaken.
Ix	Controlled blasting shall be practiced with the use of delay detonators and only during daytime .the meditative measures for control of ground vibrations and to arrest the fly rocks and boulders shall be implemented	Controlled blasting will be practised using delay detonators as per DGMS permission.
x	A progressive afforestation plan shall be implemented covering an area of 630 ha at the end of mining ,which includes reclaimed external OB dumb (350 ha),excavation area (150 ha),along ML boundary ,along roads and infrastructure (10 ha) ,embankment area (150ha) and green belt(70 ha) and in township located outside the lease by planting native species in consultation with the local	Noted and will be complied

	DFO OR Agriculture department .the density of the tress shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along main approach roads to the mine	
xi	An estimated 289.16 Mm <sup>3</sup> of OB will be generated during the entire life of the mine. Out of which 197.46 Mm <sup>3</sup> of OB will be dumped in two external OB dump in an earmarked area covering 396.00 ha of land 6.00 Mm <sup>3</sup> of OB will be dumped in embankment covering an area of 50.00ha. the maximum height of external OB dump for hard OB will not exceed 90m and that for soft Ob shall not exceed 28 degrees. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self – sustaining and compliance status shall be submitted to MOEF and its Regional Office on yearly basis	Noted and will be complied.
xii	Of the total quarry area of 385.68 ha ,the backfilled quarry area of 150 ha shall be reclaimed with plantation and avoid of 185.68 ha at adepth of 150 m which is proposed to be converted into water body shall be gently sloped and the upper benches shall be terraced and stabilised with plantation or afforestation by planting native plant	Noted and will be complied

	species in consultation with local DFO or agricultural department .the density of the trees shall be around 2500 plants per ha	
xiii	No ground water shall be used for mining operations.	Noted and will be complied.
xiv	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation .the monitoring should be carried out four times in a year – pre-monsoon (April-may) monsoon (August) post monsoon (November) and winter (January) seasons and for quality in may. Data thus Collected Shall be Submitted to the Ministry of Environment & Forest and to the central pollution control Board Quarterly within one month of monitoring	The groundwater level monitoring is being carried 4 times a year in pre-monsoon (May), Monsoon (August), Post-monsoon (November) and Winter (January) seasons and for quality once in a year. The monitoring report is regularly sent to Regional Officer, CGWB Nagpur with a copy to MoEF&CC & CPCB.
xv	The company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicates a decline in water table. The project authorities shall meet water requirement of nearby villages in case the village wells go dry due to dewatering of mine	Noted and will be complied.
xvi	Sewage treatment Plant should be installed for the colony. ETP should also be Provided for workshop and CHP wastewater.	The manpower of this project are accommodated in existing Sasti township having a fullfledged STP of 1 MLD. CHP hasnt been constructed yet. There will be no vehicle washing in the premises of the mine. So

		presently ETP is not required. But, there is a Project report provision for ETP, which will be constructed whenever required.
xvii	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 health check up for occupational diseases and hearing impairment ,if any, through an specialised agency or institution within the district or state and the result reported to this ministry and to DGMS	Personal working in dusty areas are 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 & 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. Area Hospital in WCL Ballarpur Area is a 25 bedded hospital. At present, since opening no such occupational diseases and or hearing impairment has been recorded.
xviii	Land oustees shall be compensated as per the norms laid out R &R policy of CIL or the national R & R policy of the state government whichever is higher	Land ousted are compensated as per provisions of Maharashtra GR 2012. R&R benefits are provided as per provisions of CIL R&R policy
xix	For monitoring land use pattern and for post mining land use, a time series of landuse maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in 3 years (for any one particular season which is consistent tn the time series),and the report submitted to MOEF and its regional office at Bhopal	Digital survey of entire lease hold area/core zone using satellite remote sensing survey will be carried out once in three years.
xx	A detailed final mine closure plan along with details of corpus fund shall be submitted to the ministry of environment & forest within 6 months of grant of environmental clearance	Progressive Mine closure plan has been approved for the project.

xxi	<p>The project authorities shall in consultation with the panchayats of the local villages and administration identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.</p>	<p>It is being done in all other operating mines of WCL Ballarpur area. The same will be carried out in this project too.</p> <p>CSR Expenditure for last five years is as below:</p> <table border="1" data-bbox="826 436 1439 667"> <thead> <tr> <th>Sr no.</th><th>Year</th><th>Expenditure (lakhs)</th></tr> </thead> <tbody> <tr> <td>1</td><td>2017-18</td><td>24.04</td></tr> <tr> <td>2</td><td>2018-19</td><td>5.0</td></tr> <tr> <td>3</td><td>2019-20</td><td>237.35</td></tr> <tr> <td>4</td><td>2020-21</td><td>47.05</td></tr> <tr> <td>5</td><td>2021-22</td><td>2.17</td></tr> </tbody> </table>	Sr no.	Year	Expenditure (lakhs)	1	2017-18	24.04	2	2018-19	5.0	3	2019-20	237.35	4	2020-21	47.05	5	2021-22	2.17
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xxii	<p>Corporate environment responsibility:</p> <p>a)The company shall have a well laid down environment policy approved by the board of directors</p> <p>b)The environmental policy shall prescribe for standard operating/procedures to bring focus any infringements/deviation / violation of the environmental or forest norms/conditions.</p> <p>c)the hierarchical system or administrative order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished</p> <p>d) To have proper checks and balances ,the company shall have a well laid down system of reporting of non-compliances /violations of environmental norms to the board of directors of the company and/or shareholders at large.</p>	<p>The Coal India Limited Corporate Environment Policy 2019 is duly followed by WCL. The hierarchical system of the company for dealing with environmental issues exist at corporate level &amp; area level.</p>																		

xxiii	<p>Additional condition :</p> <p>i)A social audit should be carried out annually for CSR activities should be carried out @Rs 5/MT of production apart from Rs 80 lakhs one time capital expenditure</p> <p>ii)The proponent should prepare restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner</p> <p>iii) compensatory ecological &amp; restoration of waste land,other degraded land and OB dumps in lieu of breaking open the land be carried out</p> <p>iv)The mining should be phased out in sustainable manner. No extra over burden dumps are permitted</p> <p>v)100% backfilling should be carried out</p> <p>vi) the transportation of coal should be by a combination of road and rail. The road transportation of coal from the mine to railway siding will be by road and there after by rail to MAHAGENCO.</p> <p>Vii)mechanically covered trucks should be introduced for coal transportation .</p> <p>viii) wagon loading at railway siding to be by mechanized hopper/silo loading.</p> <p>ix) The proponent should implement the assurances given during the public hearing.</p>	Noted.
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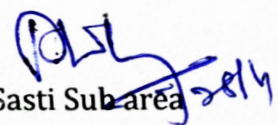
<b>B</b>	<b>General Condition.</b>	
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Noted.
ii	No change in the calendar plan including excavation quantum of mineral coal, and waste should be made.	Noted.
iii	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NOX monitoring location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets in consultation with the state Pollution Control Board. In addition, CO and CH <sub>4</sub> shall also be monitored within the underground coal mine and records thereof maintained and uploaded on the company website and also submitted to MOEF, RO, Bhopal	Monitoring of Ambient Air quality is being done by CMPDIL, Nagpur every fortnight. AAQ monitoring stations have already been established. The stations being 1. SAM office DSA -- BSUA-1 2. Sasti Colony --- BSUA-2 3. Sasti Village ---- BSUA-3 4. Manager office DOC – BSUA-4.
iv	Fugitive dust emissions (PM <sub>10</sub> and PM <sub>2.5</sub> ) from all the sources shall be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump truck (loading and unloading) point shall be provided and properly maintained.	It is being monitored by CMPDIL regularly.
v	Data on ambient air quality (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NOX) shall be	Data is submitted along with the Six monthly compliance reports.

	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.	
vi	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM etc. shall be provided with ear plugs/muffs.	Adequate measures are taken for control of Noise pollution. Workers engaged in blasting and drilling operations, operation of HEMM, etc are provided with ear plugs/muffs
vii	Industrial waste water (workshop and waste water from the mine) shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 the May 1993 and 31 St December 1993 or as emended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluent.	There will be no vehicle washing in the premises of the mine. So presently ETP is not required. But, there is a Project report provision for ETP, which will be constructed whenever required.
viii	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the mineral shall be covered with tarpaulins and optimally loaded	Complied. Only vehicles with valid PUC are being allowed
ix	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control Board and data got analysed through a laboratory recognised under EP Rules,	Monitoring of Ambient Air quality is being done by CMPDIL, Nagpur every fortnight. AAQ monitoring stations have already been established. The stations being 1. SAM office DSA -- BSUA-1 2. Sasti Colony --- BSUA-2 3. Sasti Village ---- BSUA-3 4. Manager office DOC – BSUA-4.

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x	<p>Personal working industry are as shall be wear protective respiratory devices and they shall be also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers shall be undertaken periodically to observe any contraction due to exposure to dust and to take corrective measure if needed. And records maintained thereof.</p>	<p>Personal working in dusty areas are 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. Area Hospital in WCL Ballarpur Area is a 25 bedded hospital.</p>
xi	<p>A Separate environmental management cell with suitable qualified personnel shall be set up under the control of a senior executive who will report directly to the head of the company.</p>	<p>There exists a three tier environment management set up in WCL as detailed below:  <u>At HQ, WCL</u>- The cell is headed by GM (Env) reporting to Director Technical. The team comprises of multi-disciplinary trained executives. <u>At Area level</u> – Area General Manager heads the Environment Department assisted by GM (opr), ANO(Environment), &amp; 1 Assistant manager of Environment discipline.  <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.</p>
xii.	<p>The funds earmarked for environmental protection measure shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to this Ministry and its Regional Office at Bhopal.</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.</p>
xiii	<p>The Regional office of this Ministry located at Bhopal shall monitor compliance of the stipulated</p>	<p>Noted.</p>

	condition. The project authorities shall extend full cooperation to the Officer(s) of the Regional Office by furnishing the requisite data /information / monitoring reports.	
xv	State pollution control board should display a copy of the clearance letter at the Regional office, District industry centre and Collectors office / Tahsildar office for 30 days	Does not pertain to the project.
xvi	The project authorities shall advertise at least in two local newspapers widely circulated around the project one of which shall be in the vernacular language of the locality concerned within seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the state pollution control board and may also be seen website of the ministry of Environment & Forest at <a href="http://envfor.nic.in">http:// envfor. nic.in</a>	The advertisement has been done in following newspapers. 1.Mahavidarbh, Chandrapur on 20.01.2013 2.Chandrapur Samachar on 20.01.2013
<b>3</b>	The ministry of any other competent authority may stipulate any further condition for environmental protection.	Noted and agreed
<b>4</b>	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	Noted and agreed
<b>5.</b>	The above condition will be enforced inter-alia, under the provisions of the Water (Prevention and control of Pollution) Act, 1974, the Air (Prevention and 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 provide for the costs incurred for taking up remedial measures in case of soil contamination. Contamination of ground water and surface water,	Noted and agreed

	and occupational and other diseases due to the mining operations	
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SAM, Sasti Sub area