

**Environmental Clearance No.J/11015/242/2008/IA.II(M)**

**Date: 17.07.2009**

**Compliance of Conditions**

**GAURI I& II(A) OCM**

**A) SPECIFIC CONDITION**

S.N	Condition	Compliance
i	No OB shall be dumped externally during the balance life of the expansion project. The ultimate slope of the dump shall not exceed 28 degree. Monitoring and management of existing reclaimed dump sites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests & its Regional Office located at Bhopal on yearly basis.	<p>Noted and is being complied. All the OB generated is back filled inside the mine. Details of OB generation and backfilling for last 3 years is as follows:</p> <p>OB generated in 2019-20 = 3.934 Mm<sup>3</sup>. OB generated in 2020-21 = 1.684 Mm<sup>3</sup>. OB generated in 2021-22 = 1.552 Mm<sup>3</sup>. OB backfilled in 2019-20 = 3.934 Mm<sup>3</sup>. OB backfilled in 2020-21 = 1.684 Mm<sup>3</sup>. OB backfilled in 2021-22 = 1.552 Mm<sup>3</sup>. OB backfilled in 2022-23 = 2.791 Mm<sup>3</sup>.</p> <p>117.5 Ha of External OB dump has been stabilized with plantation.</p> <p>Compliance is submitted to MOEFCC Regional Office, Nagpur every six months through six monthly compliance reports.</p>
ii	Catch drains and siltation ponds of appropriate size should 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 desilted and maintained properly. Garland drains (size gradient, 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 also provide adequate retention period to allow proper settling of silt	<p>Catch drain/Garland drain of appropriate size have been constructed all around the quarry and OB dump to arrest silt &amp; sediments flows from the respective dump sites. In case of O.B. benches in the quarry, catch drains are provided which carries silt &amp; sediments into main sump of capacity 117 Million Gallons made at the floor of the seam. It accumulates all the silts &amp; acts as first stage settling tank. The water will then be pumped out through pumps on to the surface settling tank (20.0m X 15.0m X 1.20m) &amp; discharged into nallah. The clear water from the surface settling tank will be used for watering the mine area, roads. Catch drains mentioned above are regularly desilted before onset of monsoon every year. Total length of existing Catch drain and Garland drain is 15.50 km.</p>

	material.																	
iii	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.	Retaining wall at the toe of the dumps and OB benches is not required as such as garland drains are already constructed.																
iv	Crushers at the CHP should be operated with High efficiency bag filters, water sprinkling system should be provided to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc.	<p>Adequate mitigation measures have been put in place at various dust generating sources to control dust and other fugitive emissions. Water sprinkling system is provided at CHP, crushing operations, at transfer points and haul roads. The details of air pollution control measures are as follows:</p> <p>09 nos. of sprinklers provided at CHP</p> <p>Water spraying arrangement provided at mobile crusher.</p> <p>11 nos. of rain guns installed at coal stockyard</p> <p>02 nos. of rain guns are installed at weighbridge</p> <p>3 Nos. of Mobile Water Tankers are provided for dust suppression (Hired-1 no. of 12 KL, Departmental – 2 no. of 28KL)</p> <p>01 no of hired road sweeping machine provided on coal transportation road.</p> <p>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/m<sup>3</sup>.</p> <p>Fugitive dust monitoring is carried out at;</p> <ul style="list-style-type: none"><li>• CHP (Gouri I&amp;II (A) OC)</li><li>• Weighbridge (Gouri I&amp;II (A) OC)<ul style="list-style-type: none"><li>• Fugitive dust concentration report for the period January 2022 is given below</li></ul></li></ul>																
v	Drills should be wet operated	Drills are wet operated.																
vi	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 roads and internal roads, storage yards, transfer yards.	<p>Regular repairing and tarring of roads are undertaken. Total Plantation of 5.61 lakhs done in Gouri I&amp;II(A) OCM 153.93 Ha. Year wise plantation details is as follows:</p> <table><tr><th>Sr no:</th><th>Year</th><th>Plantation (Nos)</th><th>Species planted</th></tr><tr><td>1</td><td>1993-94</td><td>50000</td><td>Imli, gulmohar,</td></tr><tr><td>2</td><td>1994-95</td><td>50000</td><td>Peltafarm, neem,</td></tr><tr><td>3</td><td>1995-96</td><td>35000</td><td></td></tr></table>	Sr no:	Year	Plantation (Nos)	Species planted	1	1993-94	50000	Imli, gulmohar,	2	1994-95	50000	Peltafarm, neem,	3	1995-96	35000	
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					Peepal, Bamboo, Amla, Jamun, Raintree, Sissoo,karanjetc
		4	1996-97	40000	
		5	1997-98	60000	
		6	1998-99	85000	
		7	1999-00	11000	
		8	2001-02	20000	
		9	2003-04	17500	
		10	2004-05	29500	
		11	2009-10	11750	
		12	2010-11	18750	
		13	2011-12	12500	
		14	2012-13	18125	
		15	2013-14	6750	
		16	2018-19	30000	
		17	2019-20	25000	
		18	2021-22	41000	
		<b>TOTAL</b>		<b>561850</b>	
vii	Controlled blasting shall be practiced with the use of delay detonators. The mitigative measures control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting with the use of delay detonators is being done in daytime only. Measures to control ground vibrations and to arrest fly rocks and boulders such as providing adequate free face for blasting and optimum charge per hole is being implemented.			
viii	A progressive afforestation plan shall be prepared and implemented covering an area of 325.91 Ha, which includes reclaimed external OB dump (186), backfilled area (51.91 ha), along ML boundary and along roads and infrastructure, embankment (28 ha) and	Regular repairing and tarring of roads are undertaken. Total Plantation of 5.61 lakhs done in Gouri I&II(A) OCM 153.93 Ha. 117.5 Ha of External OB dump has been stabilized with plantation. Year wise plantation details is as follows:			

	within vacant land (60ha ) and in township outside the lease by planting native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per Ha.	<b>Sr no:</b>	<b>Year</b>	<b>Plantation (Nos)</b>	<b>Species planted</b>
		1	1993-94	50000	Imli, gulmohar,
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		5	1997-98	60000	Amla,
		6	1998-99	85000	Jamun,
		7	1999-00	11000	Raintree,
		8	2001-02	20000	Sissoo,karanjetc
		9	2003-04	17500	
		10	2004-05	29500	
		11	2009-10	11750	
		12	2010-11	18750	
		13	2011-12	12500	
		14	2012-13	18125	
		15	2013-14	6750	
		16	2018-19	30000	
		17	2019-20	25000	
		18	2021-22	41000	
		<b>TOTAL</b>		<b>561850</b>	
ix	Of the excavated area of 223.31 Ha, an area of 51.91 ha shall be reclaimed with plantation and the void of 171.40 ha which is proposed to be converted in to a water body shall be gently sloped and	Agreed and will be complied. Excavated area till March 2022 is 223.31 Ha. Afforestation in backfilled area will be done after achieving optimum height.			

	the upper benches shall be terraced and stabilized with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	
x	No ground water shall be used for Mining operations.	Ground water is not used for mining operations. Further for mine water discharge, for NOC for Ground water abstraction has been obtained from CGWA vide letter no: CGWA/NOC/MIN/ORIG/2021/12465 which is valid upto 02/08/2023. Enclosed as <b>Annexure A</b>
xi	Regular monitoring of groundwater level quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (may), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May .Data thus collected should be submitted to the Ministry of Environment Forests and to the Central pollution Control Board quarterly within one month of monitoring.	The groundwater level monitoring is being carried out 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. Copy of ground water monitoring report enclosed.
xii	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource. The Project authorities should meet water requirement of nearby villages(s) in case the village wells go dry due to dewatering of mine.	Rainwater harvesting system has been provided at SAM office of Gouri I&II (A) OC with roof top area of 262.5 m <sup>2</sup> . The nearby villages have no shortage of water. However regular supply of water is ensured in case of scarcity.
xiii	Sewage treatment plant of adequate capacity shall be installed in the exiting colony .ETP should also be provided for workshop and CHP wastewater.	At present, Septic tank and soak pit is used for colony although which is not in mine lease area of Gauri I & II(A) OC. STP for Gouri colony is proposed to be constructed under proposed new project Gauri Pauni Expansion OCP. A provision of Rs:75.0 lakhs has been made for STP in Project report of Gauri Pauni Expansion OCP. ETP of 75 KL/day capacity is in operation at Workshop.

xvi	<p>Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.</p>	<p>Periodical health check-up of mine workers are carried out regularly with the purpose of detecting occupational diseases &amp; hearing impairment.</p> <p>WCL has set up of 25 bedded Area Hospital in Ballarpur Area with qualified doctors catering to the medical needs of the employees and local populace. The following infrastructure is available in the Area Hospital:</p> <ul style="list-style-type: none"><li>• Qualified Doctors</li><li>• Qualified lab technicians</li><li>• Spirometry instrument,</li><li>• ECG machine,</li><li>• Audiometer,</li><li>• X-ray machine,</li><li>• Blood testing apparatus Eco friendly generator etc.</li></ul> <p>The prevention measure / medicine for burns, malaria and provision of antisnake venom are ensured at Area hospital.</p> <p>Periodical Medical Examination (PME) is carried out compulsorily for each employee once in five years upto the age of 45 years and for those above 45 years is once in three years. PME is done with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers 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>Details of IMPE and PME done at Ballarpur Area is given below:</p> <table><tr><th>Year</th><th>IME (in nos.)</th><th colspan="2">PME (in nos.)</th></tr><tr><td></td><td>Acheived</td><th>Target</th><th>Acheived</th></tr><tr><td>2021</td><td>953</td><td>1220</td><td>1425</td></tr><tr><td>2022</td><td>857</td><td>1220</td><td>1216</td></tr></table>	Year	IME (in nos.)	PME (in nos.)			Acheived	Target	Acheived	2021	953	1220	1425	2022	857	1220	1216
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2021	953	1220	1425															
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xvii	<p>For monitoring land use pattern and for post mining land use, a time series of land use maps, based on satellite imagery (on a scale of 1:500) of the core zone and buffer zone, from the start of</p>	<p>Digital processing of entire lease area is being carried out by CMPDIL in 2020 and report submitted to MOEFCC. Report Attached.</p>																

	the project and until end of the mine life shall be prepared once in 3 years (for any one particular season which is consistent in the time series), and the report submitted to MOEF and its Regional office at Bhopal.																						
xviii	A final Mine Closure plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests within six months from the date of Environmental clearance for approval.	Mine closure guidelines came into force from 27/08/2009, wherein detailed framework for Mine Closure Plan was described. Thereafter MCP for Gouri I&II (A) OC was prepared. As per amended guidelines the competent authority to approve MCP of mines of Govt. Companies will be concerned board of Company. Following the directives of MoC, MCP of Gouri I&II (A) OC was prepared and the same was approved by WCL Board on 28/01/2013.																					
xix	The project authorities shall in consultation with the panchayat and local villages identify socio-economic and welfare measures under CSR to be carried out over the balance life of the mine.	<p>CSR expenditure of Ballarpur area for last five years:</p> <table border="1"> <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>7.816</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> <tr> <td>6</td><td>2022-23</td><td>25.39</td></tr> </tbody> </table>	Sr no.	Year	Expenditure (lakhs)	1	2017-18	24.04	2	2018-19	7.816	3	2019-20	237.35	4	2020-21	47.05	5	2021-22	2.17	6	2022-23	25.39
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## **B. GENERAL CONDITIONS**

i	No change in mining technology & scope of working should be made without prior approval of the Ministry of Environment & Forest.	Agreed.
ii	No change in calendar plan including excavation quantum of minerals coal & waste should be made.	Agreed.
iii	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone of SPM, RSPM, SO2 and NOx monitoring.	<p>Monitoring of Ambient Air quality is being done by CMPDIL</p> <p>AAQ monitoring stations have already been established</p> <p>The stations being</p>

	Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the state pollution Control Board.	1. Manager Office Gouri - BGOA- 1 2. Gouri Village - BGOA-2 3. SAM Office - BGOA-3 4. Gouri Colony/Filter plant - BGOA – 4 The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB. Monitoring data is being submitted to MOEF &CC & MPCB regularly. The monitoring results for period of 01.10.2022 to 31.03.2023 is attached.
iv	Data on ambient air quality (SPM, RSPM, SO <sub>2</sub> and NO <sub>x</sub> ) should be regularly submitted to the Ministry including its Regional office at Bhopal and to the State Pollution Control Board and the Central Pollution Control Board once in six months.	Ambient Air quality monitoring is being carried out as per GSR 742(E). The monitoring reports on quarterly basis are submitted to MOFF, and MPCB Chandrapur as per directives. The monitoring results for period of 01.10.2022 to 31.03.2023 is attached.
v	Adequate measures should 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 should be provided with earplugs/muffs.	Regular monitoring through CMPDIL is being done on fortnightly basis and results are within limits. Workers exposed to high noise level are provided with ear plugs/muffs. Monitoring reports enclosed.
vi	Industrial wastewater (workshop and wastewater from the mine) should be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 the May 1993 and 31 December or as amended from time to time before discharge .Oil and grease trap should be installed before discharge of workshop effluents.	Water collected in main sump are pumped to surface sedimentation tank (20.0m X 15.0m X 1.20m) after settlement it is delivered in to natural course. ETP of capacity 75 KL/day is provided. The effluent discharge are monitored as per GSR 742(E). Monitoring reports enclosed.
vii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral and stowing sand should be covered with tarpaulins and optimally loaded.	Vehicles used for transporting the mineral are covered with tarpaulins and optimally loaded. Vehicles with valid PUC are only allowed for coal transportation.
viii	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and	CMPDIL Laboratory which is NABL accredited exists at Nagpur, which monitors all the mines of WCL.

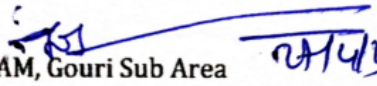


	type of pollution monitoring and analysis equipment in consultation with the State pollution Control Board and data got analyzed through a laboratory recognized under EP Rules, 1986.												
ix	<p>Personal working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> <p>Occupational health surveillance programmed of the workers should be undertaken periodically to observe any contractions due to exposure to dust &amp; to take corrective measures if needed.</p>	<p>Protective respiratory devices are provided to workmen exposed to dust area. Workers are also regularly given training on safety and health aspects at VTC (This is the statutory requirement under mines safety Act)</p> <p>Periodical medical examination of every workers is being done is every five years in our area Hospital to detect any disease so that appropriate action can be taken up at project level. VTC details are as follows</p> <p>Details of VTC trainings carried out at Ballarpur Area is given below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Year</th><th colspan="2">VTC Training</th></tr> <tr> <th>Target</th><th>Acheived</th></tr> </thead> <tbody> <tr> <td>2021-22</td><td>680</td><td>592</td></tr> <tr> <td>2022-23</td><td>680</td><td>440</td></tr> </tbody> </table>	Year	VTC Training		Target	Acheived	2021-22	680	592	2022-23	680	440
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x	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.	<p>A separate environment management cell has been established.</p> <p><b>At HQ, WCL</b> - The cell is headed by GM (Env) reporting to Director (Technical).The team comprises of multi-disciplinary trained executives.</p> <p><b>At Area Level</b> – Area General Manager heads the environment dept. &amp; assisted by GM (Oprn), ANO,and Assistant Managers of Environment discipline</p> <p><b>At Unit Level</b>-Environment Management cell is headed by Sub Area Manager and is assisted by Project Nodal Officer (Env) at unit level,</p>											
xi	The funds earmarked for environmental protection measures should kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to this Ministry and its regional Office at Bhopal.	<p>The funds earmarked for environmental protection measures are kept in separate account and it is not used for any other purpose, Expenditure statements are shown in every six monthly compliance reports sent to MOEF Nagpur</p> <p>Revenue expenditure till September 2023 = 536.86 lakhs.</p> <p>Capital expenditure till September 2023 = 226.5 lakhs</p>											
xii	The project authorities Should advertise at least in two local newspapers widely	Noted and complied. Attached.											

	<p>circulated around the project ,one of which shall be in the vernacular language of the locality concerned within seven days of 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 at the website of the ministry of Environment &amp; Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a></p>	
xiii	<p>A copy of the environment clearance letter shall be marked to concerned /Zila parishad, municipal corporation or Urban Local Body and local NGO, if any from whom any suggestion /representation has been received while processing the proposal. A copy of the clearance letter shall also be displayed on the company's website.</p>	<p>Complied. Gram panchayat copy enclosed.</p>
xiv	<p>A copy of the clearance letter shall be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Officer, District Industry Center and collector's Office / Tehsildar's Office for 30 days.</p>	<p>Agreed</p>
xv	<p>The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions (both in hard copy and in e-mail) to the respective Regional Officer of the MOEF, the respective Zonal offices of CPCB and the SPCB. The compliance status of the stipulated EC conditions shall also be uploaded by the project authorities on their website and updated at least once in every six months so as to bring the same in the public domain. The monitoring data of environmental quality parameters</p>	<p>Noted and is being complied. Copy of Cover letter of last six monthly compliance report submitted to Regional Officer of the MOEF, the respective Zonal offices of CPCB and the SPCB attached.</p>

	(air, water, noise, and soil) shall also be displayed at the entrance of the project premises and mines office and incorporate office and on the company's website.	
xvi	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Agreed upon.
xvi i	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V is mandated to be submitted by the project proponent to the concerned state pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be uploaded on the company website along with the status of compliance of EC conditions and shall be sent to the respective Regional Offices of the MOEF by E-mail.	Agreed. Environmental Statement for the year 2021-22 is submitted to MPCB. Attached.
<b>3</b>	The ministry or any other competent authority may stipulate any further condition for environmental protection.	Agreed
<b>4</b>	Failure to comply with any of the conditions above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection), Act, 1986.	Agreed
<b>5</b>	The above condition will be enforced inter-alia the provisions of the water (prevention Control of pollution) Act	Agreed

	<p>1974, the Air (prevention &amp; 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, and occupational and other diseases due to the mining operations.</p>	
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SAM, Gouri Sub Area 27/4/23