

WESTERN COALFIELDS LIMITED
OFFICE OF THE SUB AREA MANAGER
SASTI SUB AREA, BALLARPUR AREA

RefNo. WCL/BA/SAM/SSA/CIVIL/ 13340

Date: 21/05/2024

To

Addl. Principal Chief Conservator of Forests,
Ministry of Environment, Forest & Climate Change
Integrated Regional Office, Ground Floor, East
Wing, "New Secretariat Building", Civil Lines,
Nagpur, Maharashtra- 440001

Sub: - Submission of Six monthly EC Compliance Report in respect of **SASTI OC MINE**,
Ballarpur Area, WCL for the period from 1st October 2023 to 31st March 2024.

Respected Sir,

Please find enclosed herewith the Six Monthly EC Compliance Report in respect of Sasti
Opencast Project, Ballarpur Area for the period from 1st October 2023 to 31st March 2024.

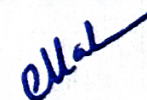
EC NO: J-11015/435/2006-IA.II(M) Dated:- 13.09.2023

EC NO: J-11015/435/2006-IA.II(M) Dated:- 17.05.2007

Thanking you.

Encl. Environment Compliance Report

Yours Faithfully



Sub Area Manager
(Sasti Sub Area)

Copy To,

1. Regional Officer, MPCB Chandrapur.
2. AGM, Ballarpur Area , WCL
3. The General Manager (Env) WCL, Nagpur
4. GM (Environment), CMPDIL RI – IV, Nagpur
5. Area Nodal Officer (Env), Wani Area.
6. Office Copy

SASTI EXPANSION OPENCAST COAL MINE
MOEF CLEARANCE LETTER No. J-11015/435/2006.IA,II (M) DATED 17.05.2007 FOR
SASTI EXPANSION OCM FOR A PRODUCTION OF 2.50 MTY.

SN	ENVIRONMENTAL CLEARANCE CONDITIONS	COMPLIANCE
A	Specific Conditions	
(i)	Mining shall be carried out as per statuette at a safe distance from the Gouri nallah / Wardha River flowing close to the lease boundary.	Mining activities are restricted within lease hold boundary at a distance of 1.85 km from Gouri Nallah & 2.50 km from Wardha River .
(ii)	The embankment to be constructed along the seasonal nallah shall be of suitable dimensions and stablised with plantation so as to withstand the peak water flow and prevent mine inundation.	Suitable embankment of proper dimension has been constructed to protect the area/ Mine from flood water as per DGMS norms. Dimensions of embankment is given as below. Length - 3570 mtr. Top width & RL - 20 mtr., 181.5 to 218.5 Bottom width & RL - 56 to 124 mtr., 172.5 to 180.00 Height - 9.00mtr to 38.00mtr. Erstwhile embankment as mentioned above has been realigned since a portion of embankment of about 1000 m has come under excavation area.
(iii)	Topsoil shall be stacked properly with proper slope at earmarked site (s) and should not e kept active and shall be used for reclamation and development of green belt.	Details of dumps are as follows: Dump no:5 Height = 34m Area = 21.251 Ha Slope = 28 degrees Part of the above dump is reclaimed with plantation Dump no: 1 Height = 22 m Area = 15.754 Ha Slope = 28 degrees It is an active dump created in 2018-19.
(iv)	OB should be stacked at the earmarked five external OB dump site within ML area which shall be a maximum height of 60m only and consist of four benches of 15m each. The ultimate slope of the dump shall not exceed 28 degree, Monitoring and management of reclaimed dumpsite should continue	All 5 external O.B. Dumps were stacked at ear marked Dump sites only and 4 out of 5 dumps are afforested. The overall slope of the Dumps is 28 degree. However the afforestation has become so dense that side slope is not at all visible. The plantation has attained the height of approx 9 to 10 mtrs and the vegetation has become self sustaining.

	until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest and its Regional office located at Bhopal on an yearly basis.	
(v)	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 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 also provided adequate retention period to allow proper settling of silt material.	Settling / sedimentation pond of appropriate size has been constructed to treat the industrial (Mine activity area) effluent including water pumped out from mine considering peak discharge. The water so treated is being used within the mine premises for dust suppression, watering of HEMM & FOR PLANTATION, Industrial use, fire fighting.. Garland drains of appropriate different sizes of 3.00x2.00, 2.00x1.5, & 1.5.x1.00mtr. for a total length of 12235.00mtr.have been provided along the periphery of excavated area as well as OBD. Desilting is being done every year before onset of monsoon.
(vi)	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 the rainfall data.	Retaining wall of proper dimension have been constructed at the toe of OB Dumps which are adjacent to coal transport roads. The Dumps are also thickly planted on top as well as on slope. The afforestation have become so dense and self sustaining that the side slope is not at all visible. The plants have attained the height of approx, 9 to 10 mtrs. In the present operating portion of mine specially benches, such retaining wall is not required. More over cross drainage in OB benches have been provided which carry all the silts & sediments ultimately to mine sump provided at the floor of seam. The sump capacity is sufficient enough to allow settlement of suspended matter significantly and only supernatant water is pumped out on surface.
(vii)	Drills should be wet operated only.	Drills are fitted with wet drilling arrangement.
(viii)	Controlled blasting should be practiced with use of delay detonators. The mitigative measures for control of ground vibrations and to arrest the fly rocks and boulders should be implemented.	Controlled blasting is being done as per scientific investigations for design of controlled blasting pattern with SME explosives at Sasti Expansion Opencast mine done by CSIR- Central Institute of Mining and Fuel Research. Copy of Study attached as ANNEXURE .

(ix)	High efficiency bag filters / water sprinkling system to check fugitive emissions from crushing operations, conveyor system, haulage roads, transfer points, etc. shall be installed and operated effectively at all times of operation.	<p>Adequate Fixed type water sprinklers are provided in & around C.H.P. Weigh Bridges, coal transport roads, transfer points etc. as per direction of M.P.C.B., Chandrapur. They are being properly maintained & operated. Details of Air pollution Control measures are given as below :-</p> <ol style="list-style-type: none"> 1. Fixed sprinklers are provided at 100 MT weighbridge - 08 Nos. 2. Fixed sprinklers are provided at Main CHP - 06 Nos. 3. Along Coal transportation road – 04 nos 4. Crusher unloading Area of both mini CHP & Main CHP are enclosed with CGI sheet and sprinklers are provided at crusher. 5. Concrete pavement provided at coal unloading Area and loading point at mini CHP. 6. Concrete pavement is provided at coal unloading Area and loading point at Main CHP. 7. Conveyor belt of mini CHP and main CHP are enclosed with CGI sheets along with sprinklers. 8. Brooming and maintenance of coal transport road and weigh bridge road is done regularly. 9. Spraying of water by 5 Nos. of Mobile Water Tankers (Hired-1 nos. Of 4 KL, Departmental – 2nos. of 28KL each and HOE contractor – 2 nos. Of 28 KL each) 10. Concrete pavement is provided in w/s complex. 11. Coal carrying Trucks are covered with Tarpaulin. 12. Tarring of 06.00 km length of internal roads used by Coal Transportation trucks. 13. One no. of trolley mounted fogger has been commissioned at Sasti OC mine with a throw of 100m.
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(x)	<p>An area not less than 451.65 ha shall be brought under afforestation which includes reclaimed external OB dump (235.30 ha), backfilled area (166.35 ha), along ML boundary, along roads & infrastructure, green belt (50 ha) and area in township located 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.</p>	<p>Noted and will be complied. Total Plantation of 5.15 lakhs done in Sasti OCM in 169.15 Ha. 20.75 Ha of backfilled area has been bioogically reclaimed.</p> <table border="1" data-bbox="792 344 1304 1415"> <thead> <tr> <th>Sr no.</th> <th>Year</th> <th>Plantation (nos.)</th> <th>Area (Ha)</th> <th>Species</th> </tr> </thead> <tbody> <tr><td>1</td><td>1993-94</td><td>47425</td><td>9.48</td><td rowspan="18">Neem, Gulmohar, Amla, Soniya, Maruk, Khair, Kadamba, Bamboo, Ber, etc.</td></tr> <tr><td>2</td><td>1994-95</td><td>60000</td><td>12.0</td></tr> <tr><td>3</td><td>1995-96</td><td>40000</td><td>8.0</td></tr> <tr><td>4</td><td>1995-96</td><td>25000</td><td>5.0</td></tr> <tr><td>5</td><td>1996-97</td><td>35000</td><td>14</td></tr> <tr><td>6</td><td>1997-98</td><td>22000</td><td>8.0</td></tr> <tr><td>7</td><td>1997-98</td><td>37000</td><td>14.4</td></tr> <tr><td>8</td><td>1997-98</td><td>2000</td><td>0.4</td></tr> <tr><td>9</td><td>1998-99</td><td>66575</td><td>26.17</td></tr> <tr><td>10</td><td>1998-99</td><td>34000</td><td>13.50</td></tr> <tr><td>11</td><td>1998-99</td><td>2000</td><td>0.70</td></tr> <tr><td>12</td><td>1999-00</td><td>34000</td><td>13.30</td></tr> <tr><td>13</td><td>2000-01</td><td>30000</td><td>12.0</td></tr> <tr><td>14</td><td>2002-03</td><td>18750</td><td>7.50</td></tr> <tr><td>15</td><td>2002-03</td><td>22250</td><td>8.90</td></tr> <tr><td>16</td><td>2007-08</td><td>25000</td><td>10.0</td></tr> <tr><td>17</td><td>2009-10</td><td>2000</td><td>0.80</td></tr> <tr><td>18</td><td>2013-14</td><td>12500</td><td>5.00</td></tr> <tr> <td></td> <td>TOTAL</td> <td>515000</td> <td>169.15</td> <td></td> </tr> </tbody> </table>	Sr no.	Year	Plantation (nos.)	Area (Ha)	Species	1	1993-94	47425	9.48	Neem, Gulmohar, Amla, Soniya, Maruk, Khair, Kadamba, Bamboo, Ber, etc.	2	1994-95	60000	12.0	3	1995-96	40000	8.0	4	1995-96	25000	5.0	5	1996-97	35000	14	6	1997-98	22000	8.0	7	1997-98	37000	14.4	8	1997-98	2000	0.4	9	1998-99	66575	26.17	10	1998-99	34000	13.50	11	1998-99	2000	0.70	12	1999-00	34000	13.30	13	2000-01	30000	12.0	14	2002-03	18750	7.50	15	2002-03	22250	8.90	16	2007-08	25000	10.0	17	2009-10	2000	0.80	18	2013-14	12500	5.00		TOTAL	515000	169.15		<p>Sissoo, Mango, Jamun, Bija, Kavath, Karanj, Siras, Arjun,</p>
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(xi)	<p>A Progressive Mine Closure Plan shall be implemented by reclamation of quarry area of which 166.35 Ha shall be backfilled and afforested 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. The balance 63 ha of decoaled void which is being converted into a water reservoir, shall be gently sloped along the upper benches, terraced and</p>	<p>It is being done. Total Plantation of 5.15 lakhs done in Sasti OCM in 169.15 Ha. 20.75 Ha of backfilled area has been bioogically reclaimed.</p> <table border="1" data-bbox="792 1602 1304 1892"> <thead> <tr> <th>Sr no.</th> <th>Year</th> <th>Plantation (nos.)</th> <th>Area (Ha)</th> <th>Species</th> </tr> </thead> <tbody> <tr><td>1</td><td>1993-94</td><td>47425</td><td>9.48</td><td rowspan="4">Neem, Gulmohar, Amla, Soniya, Maruk,</td></tr> <tr><td>2</td><td>1994-95</td><td>60000</td><td>12.0</td></tr> <tr><td>3</td><td>1995-96</td><td>40000</td><td>8.0</td></tr> <tr><td>4</td><td>1995-96</td><td>25000</td><td>5.0</td></tr> </tbody> </table>	Sr no.	Year	Plantation (nos.)	Area (Ha)	Species	1	1993-94	47425	9.48	Neem, Gulmohar, Amla, Soniya, Maruk,	2	1994-95	60000	12.0	3	1995-96	40000	8.0	4	1995-96	25000	5.0	<p>Sissoo, Mango, Jamun, Bija, Kavath,</p>																																																													
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	reclaimed with plantation. The outer periphery of the water body shall be fenced.	5	1996-97	35000	14	Khair, Kadamba, Bamboo, Ber, etc.			
		6	1997-98	22000	8.0				
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			TOTAL	515000	169.15				
		(xii)	The company shall obtain prior approval of CGWA/ CGWB Regional Officer for use of groundwater if any, for mining operations.	CGWA NOC obtained vide CGWA/NOC/MIN/ORIG/2021/12462 valid upto 02/08/2023. Attached as Annexure .					
		(xiii)	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 agency such as NIOH, Ahmedabad within a period of two years and the results reported to this Ministry and to DGMS.	<p>Periodical medical Examinations (P.M.E.) are carried out on compulsorily on each employee once in five years with the purpose of detecting and keeping records of diseases with specific importance to Coal Worker’s Pneumoconiosis. This is covered under Statute. During P.M.E., the candidates are subjected to a complete clinical examination, (including acuity of vision and hearing), radiological examination of chest and routine examination of blood and urine. In case some abnormality is detected during the course of the above examination, further investigations are carried out , as required.</p> <p>When a person is diagnosed as having a certain disease, he is referred to the concerned specialist for confirmation and initiation of treatment.</p> <p>IME/PME details for the last 5 years is as follows:</p>					

Sr no.	Year	IME (nos.)		PME (nos.)
		Departmental	Contractual	Departmental
1	2017-18	-	165	292
2	2018-19	-	172	314
3	2019-20	-	160	287
4	2020-21	-	93	252
5	2021-22	-	51	236
(xiv)	A Final mine Closure Plan along with details of Corpus Fund should be submitted immediately upon receipt of EC to the Ministry of Environment & Forests RO, Bhopal for approval.	Mine closure guidelines came into force from 27/08/2009, wherein detailed framework for Mine Closure Plan was described. Thereafter MCP for Sasti 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 Sasti OC was prepared and the same was approved by WCL Board on 25/08/2012		
(xv)	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 1:1500) 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 in the time series) and the report submitted to MOEF and its Regional Officer at Bhopal.	Complied. Attached as ANNEXURE.		
(xvi)	Consent to operate shall be obtained before expanding mining operations in the additional lease area and for the enhanced rated capacity after fulfilling the conditions imposed in the NOC.	Consent to operate has been obtained for validity upto 31/03/2023 for production capacity 2.0 MTPA .Attached as ANNEXURED. Application has been made for Consent to Operate for production capacity of 2.50 MTPA vide UAN MPCB-CONSENT-0000152899 dated 12.11.2022. CTO has been received upto 31.12.2023.		

B	General Conditions	
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests.	Noted. No change has been made.
(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 should be established in the core zone as well as in the buffer zone for SPM, RPM, SO ₂ and NO _x monitoring. 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.	Four ambient air quality monitoring stations are established as below :- 1. BSOA-1 – Filter plant at Gouri colony. 2. BSOA-2 - Sasti village. 3. BSOA-3 – SAM Office. 4. BSOA-4 – Area Store. Monitoring of SPM, RPM, SO ₂ and NO _x is being done fortnightly. Monitoring reports for the month of August 2022 and September 2022 attached as Annexure .
(iv)	Fugitive dust emissions (SPM and RPM) from all the sources should be controlled regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading and unloading) points should be provided and properly maintained.	Adequate Fixed type water sprinklers are provided in & around C.H.P. Weigh Bridges, coal transport roads, transfer points etc. as per direction of M.P.C.B., Chandrapur. They are being properly maintained & operated. Details of Air pollution Control measures are given as below :- 1. Fixed sprinklers are provided at 100 MT weighbridge - 08 Nos. 2. Fixed sprinklers are provided at Main CHP - 06 Nos. 3. Along Coal transportation road – 04 nos 4. Crusher unloading Area of both mini CHP & Main CHP are enclosed with CGI sheet and sprinklers are provided at crusher. 5. Concrete pavement provided at coal unloading Area and loading point at mini CHP. 6. Concrete pavement is provided at coal unloading Area and loading point at Main CHP. 7. Conveyor belt of mini CHP and main CHP are enclosed with CGI sheets along with sprinklers. 8. Brooming and maintenance of coal transport road and weigh bridge road is done regularly. 9. Spraying of water by 5 Nos. of Mobile Water

		<p>Tankers (Hired-1 nos. Of 4 KL, Departmental – 2nos. of 28KL each and HOE contractor – 2 nos. Of 28 KL each)</p> <p>10. Concrete pavement is provided in w/s complex.</p> <p>11. Coal carrying Trucks are covered with Tarpaulin.</p> <p>12. Tarring of 06.00 km length of internal roads used by Coal Transportation trucks.</p> <p>13. One no. of trolley mounted fogger has been commissioned at Sasti OC mine with a throw of 100m.</p> <p>Fugitive dust concentration report enclosed as ANNEXURE.</p>
(v)	Data on ambient air quality (SPM,RPM,SO2 and NOx) 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.	<p>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.</p> <p>Monitoring reports for the period 01.08.2022 to 30.09.2022 enclosed as ANNEXURE.</p>
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, of HEMM etc. should be provided with ear plugs / muffs.	<p>Regular monitoring through CMPDIL is being done on fortnightly basis and the results are within limits, Workers exposed to high noise level are provided with ear plugs/muffs. HEMM are properly maintained and kept in good condition. Noise proof cabins of HEMM are also provided. Sound level meter is used for measuring noise levels at work place and records are maintained.</p>
(vii)	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time before discharge. Oil and grease trap should be installed before discharge of workshop effluents.	<p>Sedimentation/Settling tank is provided in the mine. Mine water is pumped out after proper treatment. The results of mine water are within permissible limit. ETP along with oil skimmer is provided at workshop along with recycling system ETP sludge is properly stacked in the sludge yard as per the directives of MPCB.</p> <p>ETP – 150 KL / day.</p> <p>The effluent discharge are monitored as per GSR 742(E). Monitoring reports for the period 01.08.2022 to 30.09.2022 enclosed as ANNEXURE.</p>
(viii)	Vehicular emissions should be kept under control and regularly monitored. Vehicles used used for transport-ing the	<p>Vehicular emissions are being monitored regularly and it is kept under control. Trucks used for transporting of coal are being covered with</p>

	mineral should be covered with tarpaulins and optimally loaded.	tarpaulins.																																																																
(iv)	Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the State Pollution Control Board.	CMPDI Laboratory exists at Nagpur, which monitors all the mines of WCL.																																																																
(x)	Personnel 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. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed.	<p>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 requirements under Mines Safety Act). Details of VTC traing is as follows:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr no.</th> <th rowspan="2">Year</th> <th colspan="2">VTV (nos.)</th> </tr> <tr> <th>Departmental</th> <th>Contractual</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2017-18</td> <td>122</td> <td>149</td> </tr> <tr> <td>2</td> <td>2018-19</td> <td>131</td> <td>138</td> </tr> <tr> <td>3</td> <td>2019-20</td> <td>124</td> <td>101</td> </tr> <tr> <td>4</td> <td>2020-21</td> <td>117</td> <td>94</td> </tr> <tr> <td>5</td> <td>2021-22</td> <td>117</td> <td>71</td> </tr> </tbody> </table> <p>Periodical Medical Examination of every worker is being done in every five years in our Area Hospital to detect any disease so that appropriate action can be taken up. PME of every person employed in mine is done in interval of five years at area hospital.</p> <p>PPE kit distribution details is as follows:</p> <table border="1"> <thead> <tr> <th>Sr no</th> <th>PPE Equipment</th> <th>2020-21</th> <th>2021-22</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Helmet</td> <td>300</td> <td>292</td> </tr> <tr> <td>2</td> <td>Mask</td> <td>296</td> <td>287</td> </tr> <tr> <td>3</td> <td>Goggles</td> <td>181</td> <td>176</td> </tr> <tr> <td>4</td> <td>Earplugs</td> <td>156</td> <td>147</td> </tr> <tr> <td>5</td> <td>Jacket</td> <td>457</td> <td>452</td> </tr> <tr> <td>6</td> <td>Shoes</td> <td>492</td> <td>497</td> </tr> <tr> <td>7</td> <td>Gumboots</td> <td>357</td> <td>397</td> </tr> <tr> <td>8</td> <td>Bottles</td> <td>567</td> <td>576</td> </tr> </tbody> </table>			Sr no.	Year	VTV (nos.)		Departmental	Contractual	1	2017-18	122	149	2	2018-19	131	138	3	2019-20	124	101	4	2020-21	117	94	5	2021-22	117	71	Sr no	PPE Equipment	2020-21	2021-22	1	Helmet	300	292	2	Mask	296	287	3	Goggles	181	176	4	Earplugs	156	147	5	Jacket	457	452	6	Shoes	492	497	7	Gumboots	357	397	8	Bottles	567	576
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Sr no	PPE Equipment	2020-21	2021-22																																																															
1	Helmet	300	292																																																															
2	Mask	296	287																																																															
3	Goggles	181	176																																																															
4	Earplugs	156	147																																																															
5	Jacket	457	452																																																															
6	Shoes	492	497																																																															
7	Gumboots	357	397																																																															
8	Bottles	567	576																																																															

(xi)	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.	At HQ, WCL- The cell is headed by GM (Env) reporting to Director (Technical). The team comprises of multi-disciplinary trained executive. At Area level – Area General Manager heads the Environment Department assisted by GM (oprn), ANO(Envt), & 1 Assistant Managers of Environment discipline. At Unit Level- Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.
(xii)	The funds earmarked for environmental protection measures should be 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.	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 report which is being sent to MOEFCC. Revenue expenditure till March 2022 = 521.508 lakhs. Capital expenditure till March 2022 = 671.73 lakhs
(xiii)	The Regional Office of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the office (s) of the Regional office by furnishing the requisite data/ information/ monitoring reports.	Noted.
(xiv)	A copy of E.C. will be marked to concerned panchayat / local VGP, if any, from whom any suggestion/ representation has been received while processing the proposal.	Clearance letter has been sent to concerned Gram Panchayat vide letter No. WCL/BA/SSA/910 dated : 26.06.2007.
(xv)	State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and Collector's Office / Tehsildar's Office for 30 days.	Noted.
(xvi)	The Project authorities should 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	Complied. Attached as ANNEXURE .

	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 at the website of the ministry of Environment & Forests at http://envfor.nic.in .	
3	The Ministry or any other competent authority may stipulate any further condition for environment protection.	Agreed.
4	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract the provisions of Environment (Protection) Act. 1986.	Agreed.
5	The above conditions will be enforced inter-alia, under the provisions of the Water (prevention & control of pollution) Act 1974, the Air (prevention & control of pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed.

Sub Area Manager,
Sasti Sub Area.

**EC COMPLIANCE REPORT FOR SASTI
EXPANSION OC MINE**

File No.: J-11015/435/2006-IA.II(M)

DATED:13.09.2023

Sr no.	CONDITIONS	COMPLIANCE STATUS
	ADDITIONAL SPECIFIC CONDITIONS	
1	PP shall conduct comprehensive hydraulic and drainage study of catchment area to assess the impact on the wardha river within a year and submit the report to IRO.	Work for comprehensive hydraulic and drainage study of catchment area to assess the impact on the wardha river have been awarded to Indian Institute of Kharagpur on 01.04.2024.. Work shall be completed within 1 year of award.
2	PP shall submit the proof of submission of Wildlife Conservation Plan for schedule I species to IRO and further deposit the allocated amount within six months.	Wildlife Conservation Plan for schedule I species have been submitted to IRO with allocation of deposit to be made for the same.
3	PP shall carry out the mining activity at a safe distance of 100m from Gauri Nallah/ Wardha River flowing through mine lease area or adjacent to the lease area. In any circumstances, PP shall not divert any streams flowing within/adjacent to the mine lease area till no comprehensive study as stated above is done.	Mining activity is being carried out at a safe distance of 100m from Gauri Nallah/ Wardha River flowing through mine lease area or adjacent to the lease area. Diversion shall only be done after obtaining prior designs and approvals from state/central organisations.
4	PP needs to extract the seepage ground water from the mine and treat it through ETP so that the water can be further utilize in the Mine as well for the local villagers.	Mine discharge is being treated through sedimentation tank before discharging into local nallah. Treated water is also being used for dust suppression in the mine.
5	PP shall implement dedicated inpit conveyor belt with silo loading system till railway siding on or before December, 2025. Accordingly, SPCB may grant CTO to strictly comply this condions	Noted. Will be complied.
6	The truck size of 40 tonne (payload) for the transportation of coal shall be deployed through dedicated road till commissioning of SILO with rapid loading system on or before December, 2025 accordingly SPCB may issue the CTO.	The same shall be included in NIT of future tender of Contractors for Coal /OB removal as per approval of WCL Board.
7	PP has to resolve suggestions/objections raised during the public hearing along with implement activities-wise proposed budget of Rs. 113.33 Lakhs (as Public Hearing Budget), Rs. 1250 Lakhs (as EMP cost) in time bound manner as per s.no. (xvi) & (xvii) of para 47.1.3 of MoM of the EAC meeting. The details of annual expenditure shall be part of report submitted to IRO, MoEF&CC. PP needs to include the audited figures against the expenditure and activities to be monitored by through dedicated online monitoring mechanism. The maintenance of all	Agreed. Will be complied.

	activities shall be covered through recurring cost of Public Hearing, which will be part of CSR budget.	
8	PP has to implement capital budget upto Rs. 1341.37 lakh for implementing additional air pollution control measures, Rs. 125 lakhs for mitigation of water pollution in time bound manner as per s.no. (xiii) & (xix) of para 47.1.3 of MoM. It shall be monitored by IRO, MoEF&CC.	Agreed and will be complied.
9	Install dust barrier (made up of natural fibre) with automatic fixed type sprinkling system across the village area/sensitive area.	Work order has been awarded for Installation dust barrier (made up of natural fibre) and work shall be completed by May 2024.
10	PP shall increase number of fixed type sprinkling system (near to haul road, stockyard, transportation route etc.) across the mine lease area in order to arrest the dust coming out from the mining activities.	<p>Adequate Fixed type water sprinklers are provided in & around C.H.P. Weigh Bridges, coal transport roads, transfer points etc. as per direction of M.P.C.B., Chandrapur. They are being properly maintained & operated. Details of Air pollution Control measures are given as below :-</p> <ol style="list-style-type: none"> 1. Fixed sprinklers are provided at 100 MT weighbridge - 08 Nos. 2. Fixed sprinklers are provided at Main CHP - 06 Nos. 3. Along Coal transportation road – 04 nos 4. Crusher unloading Area of both mini CHP & Main CHP are enclosed with CGI sheet and sprinklers are provided at crusher. 5. Concrete pavement provided at coal unloading Area and loading point at mini CHP. 6. Concrete pavement is provided at coal unloading Area and loading point at Main CHP. 7. Conveyor belt of mini CHP and main CHP are enclosed with CGI sheets along with sprinklers. 8. Brooming and maintenance of coal transport road and weigh bridge road is done regularly. 9. Spraying of water by 5 Nos. of Mobile Water Tankers (Hired-1 nos. Of 4 KL, Departmental – 2nos. of 28KL each and HOE contractor – 2 nos. Of 28 KL each) 10. Concrete pavement is provided in w/s complex.

		<p>11.Coal carrying Trucks are covered with Tarpaulin.</p> <p>12.Tarring of 06.00 km length of internal roads used by Coal Transportation trucks</p> <p>Further augmentation shall be done as per requirement.</p>																																																																																			
11	Implement the integrated transportation system with Dhuptala OC mine locating near to the existing mine owned by M/s Western Coalfields limited.	Agreed and will be complied.																																																																																			
12	PP shall install additional Continuous air quality system at different locations near to village area and share online data with SPCB as well as with CPCB.	Purchase order has been issued for CAAQMS to M/s Swan Pvt. Ltd. Installation of CAAQMS will be done by 30.04.2024. Online data will be transmitted to MPCB as well as CPCB servers.																																																																																			
13	Afforestation activity shall cover area not less than 600 ha, including reclaimed external OB dump, backfilled area, along ML boundary, along roads & infrastructure, township area. The density of the trees should be around 2500 plants per ha.	<p>It is being done. Total Plantation of 5.15 lakhs done in Sasti OCM in 169.15 Ha. 20.75 Ha of backfilled area has been biologically reclaimed.</p> <table border="1"> <thead> <tr> <th>Sr no</th> <th>Year</th> <th>Plantation (nos.)</th> <th>Area (Ha)</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1993-94</td> <td>47425</td> <td>9.48</td> <td rowspan="18">Neem, Sissoo, Gulmohar, Mango, Amla, Jamun, Soniya, Bija, Maruk, Kavath, Khair, Karanj, Kadamba, Siras, Bamboo, Arjun, Ber, etc.</td> </tr> <tr> <td>2</td> <td>1994-95</td> <td>60000</td> <td>12.0</td> </tr> <tr> <td>3</td> <td>1995-96</td> <td>40000</td> <td>8.0</td> </tr> <tr> <td>4</td> <td>1995-96</td> <td>25000</td> <td>5.0</td> </tr> <tr> <td>5</td> <td>1996-97</td> <td>35000</td> <td>14</td> </tr> <tr> <td>6</td> <td>1997-98</td> <td>22000</td> <td>8.0</td> </tr> <tr> <td>7</td> <td>1997-98</td> <td>37000</td> <td>14.4</td> </tr> <tr> <td>8</td> <td>1997-98</td> <td>2000</td> <td>0.4</td> </tr> <tr> <td>9</td> <td>1998-99</td> <td>66575</td> <td>26.17</td> </tr> <tr> <td>10</td> <td>1998-99</td> <td>34000</td> <td>13.50</td> </tr> <tr> <td>11</td> <td>1998-99</td> <td>2000</td> <td>0.70</td> </tr> <tr> <td>12</td> <td>1999-00</td> <td>34000</td> <td>13.30</td> </tr> <tr> <td>13</td> <td>2000-01</td> <td>30000</td> <td>12.0</td> </tr> <tr> <td>14</td> <td>2002-03</td> <td>18750</td> <td>7.50</td> </tr> <tr> <td>15</td> <td>2002-03</td> <td>22250</td> <td>8.90</td> </tr> <tr> <td>16</td> <td>2007-08</td> <td>25000</td> <td>10.0</td> </tr> <tr> <td>17</td> <td>2009-10</td> <td>2000</td> <td>0.80</td> </tr> <tr> <td>18</td> <td>2013-14</td> <td>12500</td> <td>5.00</td> </tr> <tr> <td></td> <td>Total</td> <td>515000</td> <td>169.15</td> <td></td> </tr> </tbody> </table>	Sr no	Year	Plantation (nos.)	Area (Ha)	Species	1	1993-94	47425	9.48	Neem, Sissoo, Gulmohar, Mango, Amla, Jamun, Soniya, Bija, Maruk, Kavath, Khair, Karanj, Kadamba, Siras, Bamboo, Arjun, Ber, etc.	2	1994-95	60000	12.0	3	1995-96	40000	8.0	4	1995-96	25000	5.0	5	1996-97	35000	14	6	1997-98	22000	8.0	7	1997-98	37000	14.4	8	1997-98	2000	0.4	9	1998-99	66575	26.17	10	1998-99	34000	13.50	11	1998-99	2000	0.70	12	1999-00	34000	13.30	13	2000-01	30000	12.0	14	2002-03	18750	7.50	15	2002-03	22250	8.90	16	2007-08	25000	10.0	17	2009-10	2000	0.80	18	2013-14	12500	5.00		Total	515000	169.15	
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14	PP shall conduct special drive for villages such as Sasti, Gauri, Pauni and other nearby villages for air pollution mitigation measures and no coal storage yard, OB dump shall be dumped near to the villages.	Agreed and will be complied
15	Water storage ponds shall be constructed of appropriate depth in nearby village in collaboration with Gram Panchayat	Water storage ponds have been constructed at 3 villages namely Mathra, Charli and Dhuptala . Dimension of tank are 40m * 30m.
16	PP shall increase the bed capacity of the existing Hospital from 25 to 50 bedded at Sasti Township and allow local villager to avail the hospital facility. Quarterly health check- up campaign shall be conducted in all the villages located in 10 km buffer area.	Health check up campaigns are regularly carried out in villages of Buffer zone. Also, process of obtaining necessary permission and approvals for conversion of existing Hospital from 25 to 50 bedded at Sasti Township is underway.
17	PP shall construct 25-sitter digital library in each village including the daily newspaper facility.	Work of Digital library is under estimation stage for villages Mathra, Charli and Dhuptala.
18	PP shall create a “ Public Grievance Redressal and Monitoring System ” for resolving any issues related to the pollution of mines and complaint has to resolve as soon as possible not beyond 30 days. In this regard, adequate awareness to be spread among the public to address their grievance to company with simple and easy manner and for which company needs to devise the mechanism. The same shall be reported to IRO within 3 months. A logbook to be maintained by PP on “ Public Grievance Redressal and Monitoring System. ”	Public Grievance Redressal and Monitoring System ” for resolving any issues related to the pollution of mines and complaint has been set up. At Area level Log book for the same will be maintained
19	PP shall conduct third party audit of compliance of EC condition at an interval six months and its report shall be submitted to IRO, MoEF&CC.	Agreed and will be complied.
20	The status of mine closure activities must be included in every six months compliance report submitted to the state pollution control board and IRO.	Agreed and will be complied.
21	PP to maintain the topped haul road properly to minimized the dust emission. PP to also develop pucca roads by seeking consent from the panchayat with widening of roads especially roads inter linking the villages within the study area of 10 km radius buffer zone.	Agreed and will be complied.
22	PP to install solar lights along the road used for transportation of minerals to avoid the accidents at night and also seek its maintenance. PP is asked to also identify the rural areas for installation of solar light with its maintenance within the study area of 10 km radius buffer zone within one year.	Same has been included in proposed works of FY 24-25 and shall be implemented at the earliest after obtaining approvals of competent authorities.
23	PP to provide bio toilets to the villages located within the study areas within 1 year from the grant of this EC.	2 no. Bio toilet each have been provided in Mathra, Dhuptala and Gauri village.

24	PP shall conduct feasibility studies for assessment of voids for backfilling of ash and mixing of ash with overburden, taking up backfilling ash and OB mixing activities during operations as well as post closure of mines in line with the Fly Ash Utilization Notification, 2021	Noted.
25	PP shall pay to farmers of agricultural land if there is any loss due to pollution found by concerned District Commissioner as per extent rules or norms	Agreed.
26	PP shall deploy atleast 20% of overall fleet of dumpers/trucks/other vehicles as electrical or CNG/LNG based for transportation of coal/OB etc.	The same shall be included in NIT of future tender of Contractors for Coal /OB removal as per approval of WCL Board.
STATUATORY COMPLAINCE		
1	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.	There is no diversion of Forest land in Sasti Expansion OC mine.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	Not applicable.
3	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).	Wildlife Conservation Plan for schedule I species have been submitted to IRO with allocation of deposit to be made for the same.
4	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.	Application has been made for Consent to Establish/Operate vide application no. UAN no. MPCB-CONSENT-0000182026 and MPCB-CONSENT-0000182369 respectively for a period upto 31.03.2026 and production capacity 2.50 MTPA.
5	The project proponent shall obtain the necessary permission from the Central Ground Water Authority	CGWA NOC has been obtained for validity upto 02.03.2023. Further application for renewal has been for a period of 2 years and the requisite fees has been paid.
6	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.	Noted and will be complied.
AIR QUALITY MONITORING AND PREVENTION		
7	Continuous ambient air quality monitoring stations as prescribed in the statue be established in the core zone as well as in the buffer zone for monitoring of pollutants, namely PM_{10} , $PM_{2.5}$, SO_2 and NO_x . Location of the stations shall be decided based on	Continuous ambient air quality monitoring station is being set up in core zone and purchase order has been issued to M/s Swan for the same. Installation will be completed by April 2024. below :- 1. BSOA-1 – Filter plant at Gouri colony.

	<p>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.</p>	<ol style="list-style-type: none"> 2. BSOA-2 - Sasti village. 3. BSOA-3 – SAM Office. 4. BSOA-4 – Area Store. <p>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.</p> <p>Monitoring of heavy metals such as Hg, As, Ni, Cd, Cr, etc is also being carried out at least once in six months by CMPDIL.</p>
8	<p>The Ambient Air Quality monitoring in the core zone shall be carried out to ensure the Coal Industry Standards notified vide GSR 742 (E) dated 25th 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 Hg, As, Ni, Cd, Cr and other monitoring data shall be regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>	<p>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.</p> <p>Data on ambient air quality and heavy metals such as Hg, As, Ni, Cd, Cr and other monitoring data is regularly reported to the Ministry/Regional Office and to the CPCB/SPCB.</p>
9	<p>Transportation of coal, to the extent permitted by road, shall be carried out by covered trucks/conveyors. Effective control measures such as regular water/mist sprinkling/rain gun shall be carried out in critical areas prone to air pollution (with higher values of PM_{10} / $PM_{2.5}$) such as haul road, loading/unloading and transfer points. Fugitive dust emissions from all sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central/State Pollution Control Board.</p>	<p>Transportation of coal, to the extent permitted by road, is carried out by tarpaulin covered trucks.</p> <p>Adequate Fixed type water sprinklers are provided in & around C.H.P. Weigh Bridges, coal transport roads, transfer points etc. as per direction of M.P.C.B., Chandrapur. They are being properly maintained & operated. Details of Air pollution Control measures are given as below :-</p> <ol style="list-style-type: none"> 1. Fixed sprinklers are provided at 100 MT weighbridge - 08 Nos. 2. Fixed sprinklers are provided at Main CHP - 06 Nos. 3. Along Coal transportation road – 04 nos 4. Crusher unloading Area of both mini CHP & Main CHP are enclosed with CGI sheet and sprinklers are provided at crusher. 5. Concrete pavement provided at coal unloading Area and loading point at mini CHP. 6. Concrete pavement is provided at coal unloading Area and loading point at Main CHP. 7. Conveyor belt of mini CHP and main CHP are enclosed with CGI sheets along with sprinklers. 8. Brooming and maintenance of coal transport road and weigh bridge road is done regularly. 9. Spraying of water by 5 Nos. of Mobile Water Tankers (Hired-1 nos. Of 4 KL, Departmental – 2nos. of 28KL each and HOE contractor – 2 nos. Of 28 KL each) 10. Concrete pavement is provided in w/s complex. 11. Coal carrying Trucks are covered with Tarpaulin.

		12.Tarring of 06.00 km length of internal roads used by Coal Transportation trucks Further augmentation shall be done as per requirement.
10	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.	The transportation of coal is carried out as per the provisions and route envisaged in the approved Mining Plan/environment monitoring plan.
11	Vehicular emissions shall be kept under control and regularly monitored. All the vehicles engaged in mining and allied activities shall operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.	Vehicular emissions is being kept under control and regularly monitored. All the vehicles engaged in mining and allied activities operate only after obtaining 'PUC' certificate from the authorized pollution testing centres.
12	Coal stock pile/crusher/feeder and breaker material transfer points shall 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.	Drills are being wet operated. Adequate Fixed type water sprinklers are provided in & around C.H.P. Weigh Bridges, coal transport roads, transfer points etc. as per direction of M.P.C.B., Chandrapur. They are being properly maintained & operated. 1. Fixed sprinklers are provided at Main CHP - 06 Nos. 2. Along Coal transportation road – 04 nos 3. Crusher unloading Area of both mini CHP & Main CHP are enclosed with CGI sheet and sprinklers are provided at crusher. 4. Concrete pavement provided at coal unloading Area and loading point at mini CHP. 5. Concrete pavement is provided at coal unloading Area and loading point at Main CHP. 6. Conveyor belt of mini CHP and main CHP are enclosed with CGI sheets along with sprinklers.
13	Coal handling plant shall be operated with effective control measures w.r.t. various environmental parameters. Environmental friendly sustainable technology should be implemented for mitigating such parameters.	Agreed and will be complied.
	WATER QUALITY MONITORING AND PREVENTION	
1	The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution Control Board.	The effluent discharge (mine waste water, workshop effluent) is being monitored on fortnightly basis by CMPDIL in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25 th September, 2000 and as amended from time to time by the Central Pollution

		Control Board.
2	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-20012/1/2006-1A.11 (M) dated 27 th May, 2009 issued by Ministry of Environment, Forest and Climate Change shall also be referred in this regard for its compliance.	The monitoring data is being uploaded on the company's website. Also, Same is being reported to MPCB/CPCB/MoEF&CC on six monthly basis.
3	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, 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.	Regular monitoring of ground water level and quality is being 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 is carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality is monitored once a year, and the data thus collected is sent regularly to MOEFCC/RO on half yearly basis
4	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.	Agreed and will be complied.
5	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.	Ground water, excluding mine water, is not be used for mining operations. Rainwater harvesting have been implemented for conservation and augmentation of ground water resources at various office buildings in Ballarpur Area.
6	Catch and/or garland drains and siltation ponds in adequate numbers and appropriate size shall be constructed around the mine working, coal heaps & OB dumps to prevent run off of water and flow of sediments directly into the river and water bodies. Further, dump material shall be properly consolidated/ compacted and accumulation of water over dumps shall be avoided by providing adequate channels for flow of silt into the drains	Settling / sedimentation pond of appropriate size has been constructed to treat the industrial (Mine activity area) effluent including water pumped out from mine considering peak discharge. The water so treated is being used within the mine premises for dust suppression, watering of HEMM & FOR PLANTATION, Industrial use, fire fighting.. Garland drains of appropriate different sizes of 3.00x2.00, 2.00x1.5, & 1.5.x1.00mtr. for a total length of 12235.00mtr.have been provided along the periphery of excavated area as well as OBD. Desilting is being done every year before onset of monsoon. Further construction of Garland drains will be taken up as per requirement of mine with due regards to safety.
7	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	of OB Dumps which are adjacent to coal transport roads. The Dumps are also thickly planted on top as well as on slope. The

	<p>the sump shall be utilised 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-off and siltation should be based on the rainfall data. The plantation of native species to be made between toe of the dump and adjacent field/habitation/water bodies.</p>	<p>afforestation have become so dense and self sustaining that the side slope is not at all visible. The plants have attained the height of approx, 9 to 10 mtrs. In the present operating portion of mine specially benches, such retaining wall is not required. More over cross drainage in OB benches have been provided which carry all the silts & sediments ultimately to mine sump provided at the floor of seam. The sump capacity is sufficient enough to allow settlement of suspended matter significantly and only supernatant water is pumped out on surface.</p> <p>Desilting of drains is being done before onset of monsoon every year.</p>
8	<p>Adequate groundwater recharge measures shall be taken up for augmentation of ground water. The project authorities shall meet water requirement of nearby village(s) after due treatment conforming to the specific requirement (standards).</p>	<p>Rainwater harvesting have been implemented for conservation and augmentation of ground water resources at various office buildings in Ballarpur Area. Water is being supplied to nearby villages through tankers during dry season to cater to their water requirement.</p>
9	<p>Industrial waste water 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.</p>	<p>ETP along with oil skimmer is provided at workshop along with recycling system ETP sludge is properly stacked in the sludge yard as per the directives of MPCB.</p> <p>ETP – 150 KL / day.</p>
10	<p>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.</p>	<p>Mine discharge after treatment through sedimentation tank is being utilized for dust suppression and fire fighting purposes.</p> <p>Desilting of drains is being done before onset of monsoon every year.</p>
11	<p>The surface drainage plan including surface water conservation plan for the area of influence affected by the said mining operations, considering the presence of river/rivulet/pond/lake etc, shall be prepared and implemented by the project proponent. The surface drainage plan and/or any diversion of natural water courses shall be as per the approved Mining Plan/EIA/EMP report and with due approval of the concerned State/GoI Authority. 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 authority as prescribed by the law.</p>	<p>Agreed and will be complied.</p>
12	<p>The project proponent shall take all precautionary measures to</p>	<p>Work for comprehensive hydraulic and drainage</p>

	ensure riverine/riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government.	study of catchment area to assess the impact on the wardha river have been awarded to Indian Institute of Kharagpur on 01.04.2024.. Work shall be completed within 1 year of award.
	NOISE AND VIBRATION MONITORING AND PREVENTION	
1	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, 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.	Regular monitoring through CMPDIL is being done on fortnightly basis and the results are within limits, Workers exposed to high noise level are provided with ear plugs/muffs. HEMM are properly maintained and kept in good condition. Noise proof cabins of HEMM are also provided. Sound level meter is used for measuring noise levels at work place and records are maintained.
2	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.	Blasting is done as per Scientific Blasting study in order to mitigate ground vibrations, fly rocks, noise and air blast etc., as per the guidelines prescribed by the DGMS.
3	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.	The noise level survey is being carried out on a fortnightly basis as per the prescribed guidelines to assess noise exposure of the workmen at vulnerable points in the mine premises, and report in this regard is being submitted to the Ministry/RO on six-monthly basis.
	MINING PLAN	
1	Mining shall be carried out under strict adherence to provisions of the Mines Act 1952 and subordinate legislations made there-under as applicable.	Agreed and will be complied.
2	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).	Mining will 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).
3	No mining shall be carried out in forest land without obtaining Forestry Clearance as per Forest (Conservation) Act, 1980.	No forest land involved in Sasti Expansion OC mine.
4	Efforts should be made to reduce energy and fuel consumption by conservation, efficiency improvements and use of renewable energy.	Solar power station of 60 Kwh and 11 Kwh has been set up at Ballarpur Area for energy conservation. Also, use of LED bulbs have been made for reduction in energy usage.
	LAND RECLAMATION	
1	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	Digital Survey of entire lease hold area/core zone using Satellite Remote Sensing survey is being carried out every year for monitoring land use

	or as notified by Ministry of Environment, Forest and Climate Change(MOEFCC) from time to time shall be submitted to MOEFCC/Regional Office (RO).	pattern and report in 1:50,000 scale.																																		
2	The final mine void depth should preferably be as per the approved Mine Closure Plan, and in case it exceeds 40 m, adequate engineering interventions shall be provided for sustenance of aquatic life therein. The remaining area shall be backfilled and covered with thick and alive top soil. Post-mining land be rendered usable for agricultural/forestry 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 dated 27 th August, 2009 and subsequent amendments.	Agreed and will be complied.																																		
3	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.	Agreed and will be complied.																																		
4	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 3rd 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 submitted to Regional Office of MoEF&CC, CPCB and SPCB.	Noted																																		
5	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 top soil shall be used for land reclamation and plantation purposes. Active OB dumps shall be stabilised with native grass species to prevent erosion and surface run off. The other overburden dumps shall be vegetated with native flora species. The excavated area shall be backfilled and afforested in line with the approved Mine Closure Plan. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change/ Regional Office.	It is being done. Total Plantation of 5.15 lakhs done in Sasti OCM in 169.15 Ha. 20.75 Ha of backfilled area has been biologically reclaimed.																																		
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6	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.	No Grazing land in core zone of Sasti Expansion OC mine.																																																		
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1	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.	Wildlife Conservation Plan for schedule I species have been submitted to IRO with allocation of deposit to be made for the same.																																																		
2	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.	It is being done. Total Plantation of 5.15 lakhs done in Sasti OCM in 169.15 Ha. 20.75 Ha of backfilled area has been biologically reclaimed.																																																		
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PUBLIC HEARING AND HUMAN HEALTH ISSUES							
1	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.	Adequate illumination is ensured in all mine locations (as per DGMS standards) and monitored on a weekly basis. The report on the same is being submitted to this ministry & it's RO on six-monthly basis.					
2	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 operations shall be subjected to health check-up for occupational diseases and hearing impairment, if any, as amended time to time	<p>Periodical medical Examinations (P.M.E.) are carried out on compulsorily on each employee once in five years with the purpose of detecting and keeping records of diseases with specific importance to Coal Worker's Pneumoconiosis. This is covered under Statute. During P.M.E., the candidates are subjected to a complete clinical examination, (including acuity of vision and hearing), radiological examination of chest and routine examination of blood and urine. In case some abnormality is detected during the course of the above examination, further investigations are carried out , as required.</p> <p>When a person is diagnosed as having a certain disease, he is referred to the concerned specialist for confirmation and initiation of treatment.</p> <p>IME/PME details for the last 5 years is as follows:</p>					

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3	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.	<p>PPE kit distribution details is as follows:</p> <table border="1"> <thead> <tr> <th>Sr no</th> <th>PPE Equipment</th> <th>2020-21</th> <th>2021-22</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Helmet</td> <td>300</td> <td>292</td> </tr> <tr> <td>2</td> <td>Mask</td> <td>296</td> <td>287</td> </tr> <tr> <td>3</td> <td>Goggles</td> <td>181</td> <td>176</td> </tr> <tr> <td>4</td> <td>Earplugs</td> <td>156</td> <td>147</td> </tr> <tr> <td>5</td> <td>Jacket</td> <td>457</td> <td>452</td> </tr> <tr> <td>6</td> <td>Shoes</td> <td>492</td> <td>497</td> </tr> <tr> <td>7</td> <td>Gumboots</td> <td>357</td> <td>397</td> </tr> <tr> <td>8</td> <td>Bottles</td> <td>567</td> <td>576</td> </tr> </tbody> </table>	Sr no	PPE Equipment	2020-21	2021-22	1	Helmet	300	292	2	Mask	296	287	3	Goggles	181	176	4	Earplugs	156	147	5	Jacket	457	452	6	Shoes	492	497	7	Gumboots	357	397	8	Bottles	567	576
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4	Implementation of the action plan on the issues raised during the public hearing shall be ensured. The project proponent shall undertake all the tasks/measures as per the action plan submitted with budgetary provisions during the public hearing. Land oustees shall be compensated as per the norms laid down in the R&R policy of the company/State Government/Central Government, as applicable.	Agreed and will be complied.																																				
5	the project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29 th 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'.	Agreed and will be complied.																																				
	CORPORATE ENVIRONMENT RESPONSIBILITY																																					
1	The company shall have a well laid down environmental policy	The company has a well laid Corporate Environmental Policy duly approve by the Board of Directors.																																				

	duly approve by the Board of Directors. The environmental policy should prescribe for standard operating 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.	
2	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.	At HQ, WCL- The cell is headed by GM (Env) reporting to Director (Technical). The team comprises of multi-disciplinary trained executive. At Area level – Area General Manager heads the Environment Department assisted by GM (oprn), ANO(Env), &1 Assistant Managers of Environment discipline. At Unit Level- Environment Management Cell is headed by Sub-Area Manager and assisted by Mine Manager, Project Nodal Officer (Env) at unit level.
3	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be 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 Ministry/Regional Office along with the Six Monthly Compliance Report.	The year wise funds are earmarked for environmental protection measures are kept in separate account and not diverted for any other purpose. Year wise progress of implementation of action plan is being reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
4	Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Noted and Agreed.
	MISCELLANEOUS	
1	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 two 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.	Paper publication for receiving EC was made in Hitwada and Mahavidarbha newspapers on 20.09.2023
2	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 from the date of receipt.	Agreed and complied.
3	The project proponent shall upload the status of compliance of	Noted and Agreed. status of compliance of the

	the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	stipulated environment clearance conditions, including results of monitored data is being updated on website on half-yearly basis.
4	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NOx (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.	
5	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 and Climate Change at environment clearance portal	Latest six monthly report has been submitted for period of April 2023 to September 2023. Further submission of March 2024 shall be made before May 2024.
6	The project proponent shall follow the mitigation measures provided in this Ministry's OM No.Z-11013/5712014-IA.II (M) dated 29 th 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'.	Noted and Agreed.
7	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The environmental statement for financial year 22-23 in Form-V has been submitted. Also further submission will be made in a timely manner.
8	The project authorities shall inform to the Regional Office of the MOEFCC regarding commencement of mining operations.	Noted and Agreed.
9	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government	All stipulations made made by the State Pollution Control Board and the State Government shall be followed.
10	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	The project proponent will abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee
11	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change.	Noted and Agreed.
12	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.	Noted and Agreed.
13	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and Agreed.

14	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and Agreed.
15	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	Noted and Agreed.
16	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, 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.	Noted and Agreed.
17	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also that during presentation to the EAC. All the commitments made on the issues raised during public hearing shall also be implemented in letter and spirit.	Noted and Agreed.
18	The proponent shall obtain all necessary clearances/approvals that may be required before the start of the project. The Ministry or any other competent authority may stipulate any further condition for environmental protection. The Ministry or any other competent authority may stipulate any further condition for environmental protection.	Noted and Agreed.
19	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
20	The coal company/project proponent shall be liable to pay the compensation against the illegal mining, if any, and as raised by the respective State Governments at any point of time, in terms of the orders dated 2 nd August, 2017 of Hon'ble Supreme Court in WP (Civil) No.114/2014 in the matter of 'Common Cause Vs Union of India & others.	Noted and Agreed.
21	The concerned State Government shall ensure no mining operations to commence till the entire compensation for illegal mining, if any, is paid by the project proponent through their respective Department of Mining & Geology, in strict compliance of the judgment of Hon'ble Supreme Court.	Not Applicable.
22	This environmental clearance shall not be operational till such time the project proponent complies with the above said judgment of Hon'ble Supreme Court, as applicable, and other	Noted and Agreed

	statutory requirements.	
23	All other conditions stipulated in the EC vide its letter J-11015/435/2006-IA.II (M) dated 17.05.2007, shall remain unchanged.	Noted and Agreed.