

Bhatadi OCP Compliance

Sl.No.	Condition	Compliance										
Specific Conditions												
1	The Environmental Clearance is subject to approval of the State Land Use Department, Govt. of Maharashtra for diversion of agriculture land for non agriculture use.	As per circular No. MNG-1083/103145(3442)/Desk-IV,dt; 25 th January ,1999 issued by Secy. to Govt. "exempted the holder of mineral concession granted under rules from obtaining non-agricultural permission to change the use of land for non-agricultural purposes as provided under section 42 of the Maharashtra land Revenue code,1996. In view as the above permission for diversion of agricultural land for non-agricultural use in respect of acquisitions under CBA Act is not necessary.										
2	Top soil should be stacked properly with proper slope at earmarked site(s) with adequate measures & should be used for reclamation & Rehabilitation of mined out area	For existing Bhatadi OCP, 50000 cu.m of top soil(B.C SOIL) is kept dumped separately and the same will be done in expansion project as well.										
3	O.B. dumps should be stacked at earmarked dump site(s) only and should not be kept active for long period. Proper terracing of OB dump should be carried out so that the overall slope will come down to 28 degree. Monitoring and management of rehabilitated areas should continue till the vegetation becomes self-sustaining. Compliance Status should be Submitted to the Ministry of Environment & Forests on yearly	<p>For existing Bhatadi OCP there are two OB Dumps located at East side & West side & both are active dumps with a present height of 55 & 42 mtrs respectively & proper slope.</p> <p>Plantation shall be taken up when the dump attains its designed geometry. Location of both dumps has been shown on plan.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Dump No.</th> <th style="text-align: center;">Location</th> <th style="text-align: center;">Area In HA</th> <th style="text-align: center;">Ht in Mtrs</th> <th style="text-align: center;">Status of Biological Reclamation</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">D 1</td> <td style="text-align: center;">Near Bhatadi Village</td> <td style="text-align: center;">40.35</td> <td style="text-align: center;">55.00</td> <td style="text-align: center;">14.04</td> </tr> </tbody> </table>	Dump No.	Location	Area In HA	Ht in Mtrs	Status of Biological Reclamation	D 1	Near Bhatadi Village	40.35	55.00	14.04
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	basis.	D2	Behind Colony	15.45	42.00	4.08
4	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 de-silted and maintained properly. Garland drains of appropriate size should be constructed, so to collect surface run-off from the OB and waste dump site(s) and taken to settling pond before discharge .	For existing Bhatadi OCP, Garland drain/Catch drain of size 2.5 mtrs X 2.5 mtrs is constructed around periphery of mine for a total length of 4.00 km so as to arrest silt & sediment flow from the OB Dumps & mine. Water pumped out from the mine is discharged onto the surface & made to pass through a sedimentation pond. The clear water from the sedimentation tank is used for activities like dust suppression on haul roads & in & around CHP, Green belt development .As expansion project shall commence the catch drain shall be extended suitably				
5	Dimension of the retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	For existing Bhatadi OCP one toe wall inside mine of length 80 m on OB bench below view point has been constructed. Catch drains are provided to collect run – off and siltation from OB dumps. As expansion project commences additional toe wall shall be constructed as & when required.				
6	Green belt should be raised in area of 150.0 ha. by planting the native species around the ML area, Coal Handling Plant, roads, OB sites etc. in consultation with the local DFO/Agriculture Dept. The density of the trees should be around 2000 plants per ha.	For existing Bhatadi OCP, green belt of 1around 1.55 lakhs plants with a density of 2500 plants per ha and covering nearly 51.43 ha of land has been raised. It is being developed regularly in the mine lease area covering various infrastructures, along haul roads, coal transportation roads and vacant land with various native species through State Forest Departments. The density of trees is 2000- 2500 plants per ha. Species used are teak, shivan, sishoo, khair, arjun , behada, gliricadia, maharukh, peltafor, raintree, bamboo, mango, jamum, sitafall, amrut, V.Chinch etc. Plantation activity shall continue as well after commencement of Bhatadi Expansion project for which adequate provision has been made. In addition, the dumps and B/F areas will also be suitably biologically				

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		reclaimed. Plantation done on existing Bhatadi has been shown on plan enclosed.			
		Year	Location	Trees Planted	Area In ha
		1997-98	Vacant land in colony	40000	8.61
		1998-99	Vacant land in colony	50000	14.50
		1999-2000	OB Dump Slope	23000	10.05
		2000-01	Avenue Plantation	7000	4.42
		2002-03	Opp/Side of CHP	5000	2.83
		2004-05	Behind C/D Type in colony	10000	3.02
		2005-06	Vacant land	10000	4.0
		2006-07	Nil	Nil	Nil
		2007-08	Nil	Nil	Nil
		2008-09	Nil	Nil	Nil
		2009-10	Nil	Nil	Nil
		2010-11	OB Dump slope	10000	4.00
		2011-12	OB Dump slope	10000	
			TOTAL	165000	55.43
7	Mine discharge after proper settling should be made available for agricultural purpose through a properly developed distribution network. The project authorities should meet the water requirement of nearby villages in case the village wells go dry dewatering due to of the mine.	In the existing Bhatadi OCP, water pumped out from the mine, after the first stage settlement in the mine sump is fed into RCC sedimentation tank provided with baffle walls to deposit silt on the surface and the clear water after further settling is led into local nullah/ streams which is used by agriculturist on the downstream side. Surrounding villages are supplied with drinking water as & when required. One hand pump has also been installed in Tirwanja Village for the benefit of villagers. During expansion project , same system of treatment of mine water will continue. Also water requirement of nearby villages shall be met.			
8	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation	Existing Bhatadi OCP has already excavated ground water reservoir of size 100m X 100 m with depth 1.50 m near Tirwanja village within the leasehold area of mine for augmenting ground water resources of the			

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	with the Regional Director, Central Ground Water Board.	surrounding area. Development & deepening of reservoir completed during 2007-08.
9	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground Water Authority and Regional Director, Central Ground Water Board.	The monitoring of the ground water level and quality is being done through CMPDIL and report of same has been submitted and shall be continued. Also quality of mine pumped out water is regularly monitored as per the condition/directives.
10	Permission from the competent authority should be obtained for drawal of water for domestic use.	Competent Permission has been obtained for drawal of water for domestic use through three no. of borewells.
11	Appropriate mitigative measures should be taken to prevent pollution of Erai river in consultation with the State Pollution Control Board.	The mine water which is pumped out on surface after initial settlement in the mine sump is fed to the surface sedimentation tank. The water coming out of the sedimentation tank is monitored every fortnight as per EP Amendment rules, 2000 and the reports for Q.E. June, 2014 & September, 2014 have been enclosed with this report. From the analysis results, it can be seen that all the parameters are having values well within the permissible limits. As such it can be inferred that the mine water after treatment which is discharged into local nullah does not carry any pollution load from the mine premises. As such chances of pollution of Erai River through this project are very remote. Analysis reports as & when received from MPCB shall be submitted to MOEF. During expansion projects the quality of mine pumped out water is not likely to change as such with present system, there will not be any

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		chance of pollution of Erai river.
12	Embankment of proper dimensions should be constructed to protect the area from flood water during the rainy season.	Embankment of size 6.0 m width on top and height 3.00 m with proper slope has been constructed to protect the area from flood water during rainy season. During expansion embankment will be suitably made as given in the approved EMP with its height at least 3.00 m above HFL.
13	Coal Handling Plant should be Provided with adequate dust Extraction system. Loading & unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained & operated.	3 Nos. of rain guns of high efficiency are installed in CHP premises to control dust emission,30 Nos. Mist SPAYERS are provided at loading point, transfer points and along conveyor belt. The system is properly maintained and operated. CHP has also been provided with G.I. sheet cladding to arrest fugitive dust. During expansion, the existing system will be further strengthened/ augmented in order to cater for additional load of coal production.
14	Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and CHP waste water.	Presently the domestic sewage generated in the township is sent to soak pits provided. Workshop Effluent Treatment Plant of 75 klpd capacity is already in operation for excavation workshop. The same is operated on zero discharge concepts. In CHP, there is no waste water discharged into any of the surface water courses. Sewage treatment plant shall be constructed in the future after expansion of the existing colony.
15	Consent to Operate should be obtained from MPCB for the enhanced production.	Consent to Operate for enhanced production capacity of 0.65 MTPA has been received and a copy of the same is enclosed as Annexure – II.
16	Regular emissions should be kept under control and regularly monitored.	The vehicles namely Jeeps, Trucks, Ambulances, Pick – up Vans and hired vehicles are having valid PUC Certificates from RTO authorized agencies.
17	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring	Digital processing of entire lease area using Remote Sensing Technique is being done through CMPDIL(HQ), Ranchi. And the base line report at cut – off March 2005 has been submitted to MOEF, Regional Office, Bhopal. The Report for March 2012 at cut off March 2011 is also enclosed.

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	land use pattern and report submitted to MoEF and its Regional Office.	
18	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of environment and Forest in six months for approval.	The expansion project which is yet to take off has a life of 32 years. Moreover after next 20-25 years during operation of expansion project, further expansion may be envisaged along dip side. For the existing Project Mine Closure Plan as per MOC guide Lines has been duly approved and Escrow account opened for Rs. 55261905.00 as on 31.03.2014..
19	Land oustees and land losers should be compensated as per state Govt. norms and CIL policy.	Land Ousteas and land losers have already been detailed out in Part – III. As the land acquisition will progress, this process will continue.

General Condition

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i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Noted. No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment & Forests.
ii	No change in the calendar plan including excavation, quantum of mineral coal and waste should be made.	Noted. No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made. Application for enhancement in capacity submitted to MOEF for fresh EC.
iii	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO ₂ , NO _x & CO monitoring. Location of the stations should be decided based on the meteorological data, topographical features, and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board.	There are four numbers of ambient air Monitoring stations already established, namely: a) Colony-Core zone b) Security check post-core zone c) Bhatadi village-Buffer zone d) Kitadi village-Buffer zone. These stations have been established as per metrological data & in consultation with MPCB
iv	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x , CO) should be regularly submitted to the Ministry including its regional office at Bhopal and the States Pollution Control Board / Central Pollution Control Board once in six months.	The data on ambient air quality monitoring which is carried out at existing Bhatadi OCP is submitted every quarter to MPCB. The Reports for June. 2014 & Sep 2014 is enclosed as annexure-III & IV.
v	Drills should be wet operated or with dust extractors & controlled blasting should be	Drills have been provided with dust extractors & Controlled blasting is carried out after due permission from DGMS. The blasting is carried out only during daytime. During expansion project the same system will be followed.

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	practiced.	
vi	<p>Fugitive dust emissions from all the sources should be controlled Regularly monitored and data recorded properly. Water spraying arrangement on haul roads, wagon loading, dump trucks (loading & unloading) should be provide and properly maintained.</p>	<p>We have the following facilities for control of fugitive dust emissions ;</p> <ul style="list-style-type: none"> a) 30 nos. of Mist Spray nozzles are provided in New CHP at various transfer points. b) 3 nos. rain guns provided in CHP area. c) 2 nos. rain guns provided alongweigh bridge road d) Concrete pavement provided along weigh bridge. e) 2 nos. mobile tankers are in operation for water spraying on haul road & other mine areas. f) Black topping of coal transport road completed. g) G.I.Sheet cladding provided to CHP. h) Regular brooming of tar roads is done i) Shed provided over feeder breaker of CHP. J) 3 nos rain-guns provided in & around CHP <p>Ambient air & fugitive emission are also monitored by CMPDIL & reports submitted to MPCB. Monitoring is also done by MPCB during JVS. During expansion, the existing system will be further strengthened/augmented.</p>

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vii	Adequate measures should be taken for control of noise level below 85 dBA in the work environment. Workers engage in blasting And drilling operations, operations of HEMM, etc should be provided with ear plugs/muffs.	In order to control excessive noise during operations regular maintenance of all HEMM as well as supply of protective gears namely, Ear plugs & muffs are carried out. In addition regular noise monitoring on every fortnight is being done as per Environment Protection Amendment Rule 2000 & data recorded & submitted as quarterly report & the results are within permissible limits. During expansion the existing system will be further strengthened/ augmented considering the additional load.
viii	Industrial waste water (workshop and waste water from mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Workshop ETP of 75 KLPD capacity is in operation with pre-settling tank, drain, oil & grease trap, sedimentation tank & clear water tank. The treated effluent is reused for washing of HEMM & dust suppression. There is no discharge of effluent to outside nallah. Mine discharge water is made to pass through sedimentation pond before being let to outside nallah. Regular water quality monitoring is carried out by CMPDIL on behalf of WCL & by MPCB. as per Environment Protection Rules , 2000 of MOEF. During expansion the ETP will further be strengthened & system will continue.
ix	Acid mine water if any , has to be treated and disposed off after confirming to the standards prescribed by the competent authority Environmental laboratory should be established with adequate number and type of pollution monitoring and analysis equipment in consultation with the state pollution control board.	There is no acidic water coming out from the mine as the recorded PH is in the range of 5.5 to 9. A full-fledged environmental laboratory(An ISO-9000: 2000 Certified) already exists at CMPDIL Nagpur with qualified multi –disciplinary team of engineers along with adequate number of field staff for carrying out all the environmental monitoring of all WCL projects including existing project & will continue in future.

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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 contradictions due to exposure to coal dust & take corrective measures, if needed.	Protective health & safety gears are provided to workmen exposed to dust, namely, Dust mask, Helmets, Safety Boots, Goggles as per DGMS specifications. The workers are regularly given training on safety & health aspects (Statutory requirement under mines act). Approx. 1/5 workers of Bhatadi OCP are sent for Periodical Medical Examination every year under Health Surveillance programme & will continue during expansion as well.
xi	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Sr. Executive, who will report directly to the head of the organization.	At project level, Environmental management cell is headed by Sub Area Manager & is assisted directly by Project Nodal Officer(ENV)/ S.E. (C) .At Area level ,GM(OPR) heads the cell assisted by Area Nodal Officer(ENV). At WCL-HQ/Corporate level HOD(ENV) heads the environment department assisted by multi disciplinary team of qualified & trained engineers.
xii	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purposes. Year wise expenditure should be reported to the ministry and its regional office located at Bhopal.	The funds earmarked for environmental protection measures are kept separate & are not used for any other purpose. The expenditure under capital head till date & under revenue head for current year as well as progressive has been given earlier in this report.(Part-III).The same will continue for expansion project as well.
xiii	The regional office of this ministry located at Bhopal 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.	Full co-operation from project authorities will be extended to officers of Env. Ministry, Bhopal, by furnishing the requisite data /information/ monitoring reports.

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xiv	A copy of clearance letter will be marked to concerned panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	A copy of clearance letter is submitted to Sarpanch of Payali-Bhatadi Gram-panchayat vide WCL/CHA/CGM/ENV/701/ 817 dt.16.06.2005 already submitted vide six monthly report upto Nov 2010.
xv	State pollution control board shall display a copy of the clearance letter at the regional office, district industry centre and collectors office/tahsildar's office for 30 days.	EC submitted to S.R.O. MPCB ,vide letter no. WCL/CHA/CGM/ANO/ENV/733/4076dt.30.6.2005 /01.07.2005 already submitted vide six monthly report upto Nov 2010.
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 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 website of the ministry of environment & forests at http://envfor.nic.in .	Advertisement displayed in two local newspapers namely "CHANDRAPUR SAMACHAR,' Marathi, dated 11.06.2005 and "HINDI MAHAVIDARBHA "dated; 11.06.2005' , already submitted vide six monthly report upto Nov 2010.