

M. S. Ch.

Environment clearance letter No. J-11015/235/2006-IA,II(M), dtd: 08.05.2007
Point wise compliance of environmental clearance conditions (15MTY)

S. No.	CONDITIONS.	Compliance	Status																		
(A)	Specific conditions:																				
(i)	No mining shall be carried out in the forest land, for which forestry clearance has not been obtained.	No mining is being carried out in the forest land, for which forestry clearance has not been maintained	Plan is enclosed at annex - i																		
(ii)	Topsoil shall be stacked properly with proper slope at earmarked site(s) and should not be kept active and shall be used for reclamation and development of green belt.	Top soil is not found uniformly throughout the mines. During working on the top benches in west section, 303:70 cum. top soil had been collected and stored on the top soil dump (A part of OB dump - "Site A" in the plan) in west section. This top soil was used during plantation in the year 2010-11. In the present working, the top soil ranging from 1' to 2.5' is available in top bench of East/Central which shall be dumped in the TOP SOIL DUMP (A part of OB dump - "Site D", "Site C" and "Site B" in the plan as shown in the enclosed plan) specially prepared for the purpose when working shall take place. Area has been identified for preserving top soil and is designated as TOP SOIL DUMP, in the mine plan. (Photograph of top soil dump enclosed)	Photograph of storage of top soil is enclosed at annex - ii																		
(iii)	OB generated shall be stored in two external waste dump of 418 ha and a max. height of 150m, consisting of 5 benches of 30m each, which will be stabilized with plantation, and the ultimate slope of the dump shall not exceed 25°. Monitoring and management of reclaimed dumpsite should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forests and its Regional office located at Bhopal on yearly basis.	Out of 418 Ha external dump area 94.77 Ha has been already technically and biologically reclaimed up to September 2012 & for balance area reclamation will be carried out as per EMP schedule. Dump/deck height & slope are maintained as given in approved EMP. Details of plantation made on external dumps from year 2000 and onwards are as under: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Year</th> <th>No of plants</th> <th>Area (Ha.)</th> </tr> </thead> <tbody> <tr> <td>2000</td> <td>80000</td> <td>10.70</td> </tr> <tr> <td>2001</td> <td>16000</td> <td>6.30</td> </tr> <tr> <td>2003</td> <td>30000</td> <td>5.36</td> </tr> <tr> <td>2007</td> <td>50400</td> <td>14.40</td> </tr> <tr> <td>2012</td> <td>24500</td> <td>7.10</td> </tr> </tbody> </table>	Year	No of plants	Area (Ha.)	2000	80000	10.70	2001	16000	6.30	2003	30000	5.36	2007	50400	14.40	2012	24500	7.10	A portion of Western External dump is reclaimed whereas the remaining part is still active. Southern external dump is still active. Plan is enclosed in annex - III(A). Plantation details on OB dumps is enclosed in annex - III(B).
Year	No of plants	Area (Ha.)																			
2000	80000	10.70																			
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2012	24500	7.10																			
(iv)	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 utilised for watering the mine area, roads, green belt development etc. The drains should be regularly repaired and maintained properly. Garden 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	Catch drains & Siltation ponds properly designed & constructed considering the water & silt quantity and properly maintained & cleaned. Water used for dust suppression purpose. Garden drains and Sumps are properly (50% safety margin) designed considering the peak sudden rainfall and maximum discharge in the area adjoining the mine site & retention period for setting of silt & annual rainfall	Last de-silting done during the monsoon 2012-13. Photo enclosed in annex. iv.																		

Sl. No	CONDITIONS	Compliance	Status
(xii)	The company shall obtain approval of CGWA / CCWB Regional Office for use of ground water if any, for mining operations. Sanction of the competent authority shall be obtained for use of water from the Integrated Water Scheme of the G.B. Pant Sagar.	For use of water from G.B. Pant Sagar consent approval already obtained.	
(xiii)	Regular monitoring of ground water level and quality, should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (May), monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May. Data thus collected should be submitted to the Ministry of Environment & Forest and to the Central Pollution Control Board quarterly within one month of monitoring.	Ground Water Level monitoring is being carried out in four seasons, by establishing a network of dug wells. Quality checked and report enclosed (Annex-I).	
(xiv)	The company shall put up artificial ground water recharge measures for augmentation of ground water resource. The Project authorities should meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Madvani Dam on East side, Bareja pond on West side & a pond near CHP- IIA are being used for artificial ground water recharge. Four no. ground water recharge wells have also been constructed in township for rainwater harvesting. No villages/Well fall within the radius of influence of Nigahi mine till date.	Photo of Bareja pond are enclosed in annex-viii.
(v)	Sewage treatment plant should be installed in the existing colony. ETP should also be provided for Workshop and CHP wastewater to ensure that the total wastewater of 3190 cum/d being discharged from the mine conforms to prescribed standards for discharges.	STP of capacity 3.00 MLD capacity is working in the colony since June 2001. ETP of 280 M ³ /hr capacity for CHP, 167 M ³ /hr. capacity for Workshop are working since January 2000. The water flow over the siltation pond is utilized for dust suppression on the haul roads and is conforming to the standards prescribed as given in the enclosed monitoring report (Annex-III).	Total capacity of ETP is 447 m ³ /hr and is operating 10-12 hrs/day i.e. 4470 - 5364 m ³ /day. Photo of ETP and STP is enclosed in annex-ix.
(vi)	The project authorities shall carry out a study for zero discharge from NGL mines by considering various options for using excess treated effluents including artificial recharge and the report on the same shall be submitted to this Ministry within six months of issue of this clearance letter.	The job has already been assigned to CMPDI & same is under progress.	However at present no water is going out of mines during rainy season and there is zero discharge.
(vii)	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 MCH, Ahmedabad within a period of two years and the results reported to this Ministry and to DGMS.	Regular health check up in the form of PME is being done for all employees.	

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(Xiii)	For monitoring land use pattern and for post-mining land use a time series of land use maps, based on satellite imagery (on a scale of 1:5000) of the core zone and buffer zone, from the start of the project until end of mine life shall be prepared once in a three years (for any one particular season which is consistent in the time series), and the report submitted to MDEF and its Regional Office at Bhopal.	CMPDI is regularly monitoring land use pattern in 3 years intervals by remote sensing. Remote sensing map of Singrauli coalfields prepared by CMPDI for the year 2011 is being enclosed(Annex.-ii)	
(iv)	R & R for the remaining 380 PAPs shall be completed by 2010-11. The R & R will be based on norms not less than that stipulated under the National R & R Policy/State Govt. whichever is higher.	R&R of 31 PAPs have already been completed and R&R of Remaining 350 PAPs are expected to be completed in phase manner.	Photo of rehabilitation site enclosed in annex -x
(v)	A final Mine Closure Plan along with details of 'Closure Fund' should be submitted to the Ministry of Environment & Forests within one year for approval.	Mine closure plan(MCP) approved by NCL Board has already been submitted.	MCP is under revision as per MPPCB and MOC guidelines.
(vi)	Consent to Operate shall be obtained before expanding mining operations.	Consent to operate obtained. Renewal of Air & Water consent valid up to 07.05.2015	
(5)	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	No change in mining technology shall be made	
(ii)	No change in calendar plan including excavation, quantum of mineral coal and waste should made.	No change in calendar plan shall be made.	
(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 environmental and ecologically sensitive targets in consultation with the State Pollution Control Board.	Five stations have been established and monitoring is going as per EC conditions.(Details at Annex.-iii).	
(iv)	Fugitive dust emission (SPM & RPM) from all the sources should be controlled regularly monitored and date recorded properly. Water spraying arrangement on haul roads, wagon loading dump trucks (loading & unloading) points should be provided and properly maintained.	CMPDI is regularly monitoring on fortnightly basis.	Result enclosed in annex x/A and photo in annex-x.B
(v)	Data on ambient air quality (SPM, RPM, SO ₂ & NO _x) should be regularly submitted to the Ministry including its Regional Office at Bhopal and to the State Pollution Control Board once in six months.	Implemented	

S/N	CONDITIONS	Compliance	Status
(xii)	The Regional Officer of this Ministry located at Bhopal shall monitor compliance of the stipulated conditions. The Project authorities shall extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	Implemented. Requisite data/information are regularly sent to MOEF, Bhopal.	
(xiii)	A copy of the environmental clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	Complied.	
(xiv)	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.	Not Applicable	
(xv)	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 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 web site of the Ministry of Environment & Forests at http://envfor.nic.in .	Complied.	