

Half Yearly Compliance Report of Basundhara (West) OCP MCL (April'2013 to September'2013)

SPECIFIC CONDITIONS

101-549

Sl.	Environmental Clearance Condition	Status of Implementation
(i)	Topsoil should be stacked properly with proper slope at earmarked site(s) with adequate measures and should be used for reclamation and rehabilitation of mined out area.	Top soil being spread concurrently over OB dumps before biological reclamation.
(ii)	OB dumps should be stacked at earmarked site(s) and should not be kept alive for long period. The total height of dumps should not exceed 50 mtrs, in two stages of 20mtrs each. Overall slope should not exceed 28 degree. Concurrent backfilling should be started from fourth year of operation. Monitoring and management of rehabilitated area should continue till vegetation become self – sustaining Compliance status to be submitted to MoEF on yearly basis.	External OB dumping started in 2004-05 and maximum height attained 15m. only. Concurrent back filling started in 2006-07 (4 th year of mine operation).
(iii)	Catch drain, siltation pond 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, 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 provide adequate retention period to allow proper settling of material.	Garland drain around external OB dump constructed.
(iv)	Dimension of the retaining wall at toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data.	Retaining wall at the toe of OB dumps not required considering the low height of the dumps.
(v)	While constructing an embankment on the northern bak of Basundhara river proper stone pitching towards slope should be undertaken and a toe wall should be erected.	Proper pitching on slope of embankment shall be done at the time of construction of embankment along Basundhara River.
(vi)	A detail decommissioning plan to be submitted to MoEF 5 years in advance of closure for approval.	Mine closure plan shall be submitted in time as stipulated.
(vii)	Regular monitoring of adequate width should be raised by planting the native species around ML area, CHP, roads, OB dump sites etc. in consultation with DFO/Agriculture dept. The density should be around 2500plants/Ha.	1,69,135 nos. of trees planted by OFDC/CGRVNN govt. agencies of Orissa & Chhatisgarh in and around mines, the density being 2500/ ha.
(viii)	Regular monitoring of ground water level and quality should be carried out establishing a network of existing wells and constructing new piezometers. The monitoring should be done four times a year A. Pre-monsoon (APRIL) B. Monsoon (AUGUST) C. Post monsoon (NOVEMBER) D. Winter (JANUARY) Data thus collected should be submitted to the Ministry of Env. And Forest and Ground Water Board quarterly.	Ground water level being monitored report enclosed.
(ix)	Project should undertake sample survey to generate data on pre Project community health status within a radius of 1km from the proposed mine.	Our doctors & paramedical staffs visit the nearby villages/schools etc to take care of health of the villagers and children.
(x)	The Project authority should meet water requirement of nearby villages in case the village wells go dry due to de-watering of the mine.	Water supply to the near by villages being made through tankers in summer.
(xi)	Appropriate mitigative measure should be taken to prevent pollution of Basundhara river in consultation with the State Pollution Control Board.	Mine effluent not being discharge to Basundhara river. The mine water is stored in the abandoned quarry.
(xii)	CHP should be provided with adequate no high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangement. These should be properly maintained and operated.	Arrangement of water spraying made at CHP, loading/unloading areas, Rly. Siding by mobile tankers/fixed sprinklers.
(xiii)	S.T.P should be installed for the colony & ETP should also be provided for workshop and CHP waste water.	Conventional safety tanks/soak pits provided in the colony. ETP provided in the Excavation workshop.
(xiv)	Digital processing of the entire lease area using remote sensing technique should be done regularly once in 3 years for monitoring land use pattern and report submitted to MoEF and its Regional Office.	Change in land use pattern shall be monitored through satellite imageries.

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GENERAL CONDITIONS

Sl.	Environmental Clearance Condition	Status of Implementation
(i)	No change in mining technology and scope of working.	Being complied
(ii)	No change in calendar plan.	Being complied
(iii)	5 ambient air quality monitoring station in core zone as well buffer zone for RPM, SPM, SO ₂ , nox and CO monitoring. Location of stations should be decided on metrological data, topographical features and environmentally and ecologically sensitive targets in consultation with SPCB. Data on ambient air quality should be sent regularly to ministry including Regional Office at Bhubaneswar and to the SPCB / CPCB once in six month.	Ambient air quality being monitored for SPM, RPM, NOX & So ₂ in consultation with OSPCB. Data of Oct'2011' to March'2012 enclosed - Annex-1.
(iv)	Data on ambient air quality (RPM, SPM, SO ₂ , NOX and CO) should be regularly submitted to the ministry including its Regional Office at Bhubaneswar and the State Pollution Control Board/ Central Pollution Control Board once in six month.	Data being submitted to MOEF & SPCB.
(v)	Drills should be wet operated or with dust extractor and controlled blasting should be practiced.	Both wet drilling & dust extraction provided in drills.
(vi)	Fugitive dust emission from all the sources should be controlled, regularly monitored and data recorded properly. Water spraying arrangement on haul road, wagon loading, dump trucks (loading and unloading) should be provided.	Being complied
(vii)	Adequate measures should be taken for control of noise levels below 85 dBA in the environment. Workers engaged in blasting & drilling operation, operation of HEMM etc., should be provided with ear plugs / muffs.	Being complied
(viii)	Industrial wastewater (workshop and waste water from the mine) should be properly collected, treated so as to confirm to the standards prescribed under GSR 422(E) dated 19.05.93 and 31.12.93 or as amended from time to time, O&G trap to be installed before discharge of effluent.	Workshop effluent being treated through integrated ETP with oil & grease trap. The treated water is recycles for washing of vehicles. The mine effluent is stored in the abandoned quarry and not discharged Outside even during monsoon.
(ix)	Acid mine water if any has to be treated and disposed of after confirming to the standard prescribed by the Competent authority.	Mine water is not acidic.
(x)	Env't. Laboratory should be established with adequate number and type of pollution monitoring and analysis equipment authority.	At present the analysis of air and water being done at laboratory of CMPDI (a sister organization of MCL).
(xi)	Personnel working in dusty area should wear protective respiratory devices and they should also be provided with adequate training & information on safety & health aspect. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to coal dust and take corrective measures, if needed.	The workers are trained at VTC regarding safety & health awareness. Their health being monitored through Periodical Medical Examined every 5 years interval. They are also provided with dust mask.
(xii)	A separate Environment Management Cell with suitable trained personnel should be set up under the control of a senior Executive, who will report directly to the Head of the Organization.	Separate Environment Management Cell exists At Project as well as Area level.
(xiii)	Funds earmarked for Environmental protection measures should be kept in separate account & should not be divert for other purpose year wise expenditure should be reported to Ministry and Regional Office located at Bhubaneswar.	Funds earmarked for Environment protection measures not being diverted. About Rs.10/- per tonne of coal being spent on environment management.
(xiv)	The Regional Office of this Ministry located at Bhubaneswar shall monitor the compliance of the stipulated conditions. The project authority should extend full cooperation to the officer(s) of the Regional Office by furnishing requisite data/information/monitoring reports.	Being complied.
(xv)	A copy of clearance letter will be marked to the concerned Panchayat/Local NGO, if any, from whom any suggestions/representation has been received while processing the proposal.	Complied.
(xvi)	State pollution Control Board should display a copy of clearance letter at the Regional Office, District Industry Centre and Collector's / Tahasildar's office for 30 days.	
(xvii)	The project authority should advertise at least in two local newspaper widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days Of the issue of the clearance.	Complied.

	Letter informing that the project has been accorded Environment Clearance and a copy of the clearance letter is available with State Pollution Control Board and may also be seen at web site of the Ministry of Environment and Forest at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.	
3.	The ministry or any other Competent authority may stipulate any further condition for Environmental protection.	
4.	Failure to comply with any of the conditions mentioned above may result in withdrawal of the clearance.	
5.	The above conditions will be enforced, inter-alia, under the provisions of the Water(Prevention and Control Pollution) Act, 1974, the Air (Prevention and Control of Pollution(Prevention and Control of Pollution) Act 1981, the Environment(Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their Amendments and rules.	



Project Officer
Basundhara (West) OCP