

B.C. MOHANTY & SONS PRIVATE LTD.

MINE OWNERS & EXPORTERS
RAJABAGICHA, CUTTACK - 753009
(OPPOSITE TO S.B.I., JHANJIRIMANGALA)
ORISSA, INDIA

Ref. No.....268(A)/2010-2011

Date.....27.12.2010

To
Dr.S.Kerketta,
Joint Director(S),
Govt. of India,
Ministry of Environment & Forest,
Eastern Regional Office,
A/3,Chandrasekharpur,
Bhubaneswar-751023

Ref : File No. J-1105/418/2006-IA. II(M) and Letter dated 8th May, 2008.

Sub :- Submission of six monthly progress report (April-November) on the Status of compliance to the conditions stipulated by the Ministry of Environment & Forests, Govt. of India to the project "Expansion of Kamarda opencast mine"

Sir,

We furnish herewith the six monthly report (April-November) on the status of the implementation of the environmental safeguards stipulated by the Ministry of Environment and Forests, New Delhi in their approval letter dated 8th May, 2008 :-

Specific Conditions :-

- i. We have implemented effectively all the conditions stipulated by the State Pollution Control Board in their consent to establish.
- ii. The necessary Forest clearance under the Forest (conservation) Act, 1980 has already been obtained vide Letter dated 28.03.2008 of M.O.E.F, New Delhi. The said copy was enclosed during previous transmission of compliance report.
- iii. We store the top soil at earmarked sites only and it will not be kept un-utilized for a period more than 3 years. The topsoil will be used for land reclamation and plantation.
- iv. We hereby ensure that no natural watercourse/water body shall be obstructed due to any our mining operations.

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- v. We stack the overburden generated at earmarked dump site only and it will not be kept active for a longer period of time. The total height of the dump is not more than 30m, in three terraces of 10m.each, the overall slope of dump below 28°. About the slope stability study, we will be taking up the matter with the Director of C.M.R.I, Dhanbad for undertaking slope study report. The O.B. dumps are being carried out vegetation with suitable native species as advised by the State Forest Department officials to prevent erosion and surface run off. Monitoring and management of rehabilitated areas is being continued by us till the vegetation becomes self-sustaining. We are submitting the compliance status report to the Ministry of Environment & Forest on every six monthly basis.
- vi. We have constructed catch drains and siltation ponds of appropriate size for working pit, soil, OB and mineral dumps to arrest flow of silt and sediment going directly into Damshal Nallah. We are also desilting from time to time for free of water particularly after monsoon and maintained properly so that, water does not go to directly to other areas.
- Garland drains and check dams have been constructed, settling dams in appropriate sizes, gradient and lengths have also been constructed soon to prevent run off of water and flow of sediments directly into the Damasal nallah and other water bodies. Sump capacity is designed keeping more than 50% safety margin over and above peak sudden rainfall.
- Storm water return system will also be undertaken in lateral course of time and Storm water will not be allowed to E.T.P during high rainfall/super cyclone period for which a storm water sump is undertaken construction for this purpose.
- vii. Dimension of retaining wall at the toe of over burden dump and OB benches within the mine to check run off and siltation is maintained based on the rainfall data.
- viii. Treatment is given to effluents containing Cr+6 to meet the prescribed standards before reuse/discharge. One E.T.P has been functioning in our mines for treatment of mine discharge water.

Run off from OB and other surface run off is analyzed regularly to see whether its concentration is within permissible limit or not. In our mines the same is under permissible standard.

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- ix. Separate impervious concrete pits for disposal of sludge have been made for the safe disposal of sludge generated from our mining operation.
- x. We hereby ensure that the quality of decanted effluents are within prescribed standard.
- xi. Concentration of Cr+6 in the tailing is under control and remains below the standards as prescribed.
- xii. Plantation is carried out in consultation with local DFO in course of time.
- xiii. We are regularly using water sprinkler of 12,000 lits, Capacity in our mines for effective dust suppression & ensure that the A-A-Q parameters remains within the norms prescribed by the Central Pollution Control Board in this regard.
- xiv. We are trying to implement suitable conservation measures to augment ground water resources in the mines area at best with due consultation with the concerned department.
- xv. The monitoring reports of ground water level and quality data are being sent regularly to the Ministry of Environment & Forests, its regional office at Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground Water Board.
- xvi. The same will be obtained as and when required.
- xvii. Requisite Initiation measures has been taken for rainwater harvesting measures on long term basis on consultation with Regional Director, Central Ground Water Board, and our Consultant Dr. R.P Agrawal, and being implemented effectively in our mines field.
- xviii. Vehicles emissions are under control and we are monitoring regularly. Vehicles are being covered with tarpaulin and overloading has been totally prohibited.
- xix. Blasting operation is done only during the day time. Since minimum blasting is required at our mines area, so We conducting controlled blasting practiced for controlling of ground vibrations as well as fly rocks.
- xx. Drills are being operated with dust extractors.

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- xxi. We have been granted Consent to operate From SPCB in enhance quantity.
- xxii. We have take steps to complete Sewage treatment Plant earlier, which was under Construction & E.T.P has also been running successfully in our mines area.
- Xii. Final Mine Closure plan along with details of corpus fund will be submitted to the Ministry of Environment & Forests five (05) years in advance of final closure for approval.

B. General Conditions:-

- i. No change has been made in mining technology & working plan.
- ii. There has been no change in calendar plan in excavation, quantum of Chromite ore and waste.
- iii. Conservation measures for protection of flora and fauna in the core & buffer zone are being undertaken by consulting with the concerned local Forest and wildlife department.
- iv. Periodic monitoring of ambient Air quality is being carried out for RPM, SPM, SO₂ and NO_x. The stations are located basing on meteorological data, topographical features and environmentally and ecologically sensitive targets and all these being undertaken in consultation with the State Pollution Control Board. The data so collected is being submitted to the Ministry's Regional office, Bhubaneswar as well as State Pollution Control Board once in every six months.
- v. We are taking adequate measures for control of noise levels below 85 dB in the work environment. We provide Ear plugs/muffs to the Staff & Labourers.
- vi. There is no workshop inside the lease area which are taken to nearby garage in JK Road nearest town for repairing. An effluent treatment plant has been installed and running since 15.11.2000 based on Ferrous-Sulphate. Treatment is being given to mine discharge water for purification before going to outside of our lease area and is remaining below the prescribed standard.
- vii. Adequate training & information is being given to personnel working in dusty areas providing with protective devices such as mask. We are carrying out health surveillance program periodically to observe any contractions due to exposure to dust or not.

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