

ମହାନଦୀ କୋଲ ଫିଲ୍ଡସ୍ ଲିମିଟେଡ୍
महानदी कोलफील्डस लिमिटेड
Mahanadi Coalfields Limited
(A subsidiary of Coal India Limited)

OFFICE OF THE PROJECT OFFICER (T&H/D)
TALCHER COLLIERY
PO:-DERA COLLIERY, DIST:ANGUL
(ODISHA), PIN:759103
E_mail: potalcher2016@gmail.com



MCL

No.PO(T&H)/Mandapal/Half-yrly/EC Compliance/2021-22/ 19

Date: 20/05/2021

To

The Additional Director,
Ministry of Environment Forest & Climate Change,
Eastern Zonal Office,
A-3, Chandrashekharpur,
Bhubaneswar-751023

Sub:-Submission of Half Yearly Compliance Report of Environmental Clearance condition in respect of Mandapal sand mine.

Dear Sir,

Enclosed please find herewith Half Yearly Compliance Report along with Form-I, II & III and abstract of the monitoring report of Noise level & Water Effluent quality in respect of Mandapal Sand Mine for the period from Oct'2020 to Mar'2021.

This is for your kind information & necessary action.

Encl: As above.

Yours' faithfully,

PROJECT OFFICER (T&H/D)
DEULBERA COLLIERY/MANDAPAL SAND MINE

Copy for Kind information to:

1. The Director, E.I.A Monitoring Cell, Ministry of Environment & Forest, Paryavaran Bhawan, C.G.O.Complex, New Delhi-100003 (With Encl.)
2. The Member Secretary, State Pollution Control Board (Odisha), A/118, Nilakanthanagar, Unit-VIII, BBSR-751012. (With Encl.)
3. The Regional Officer, SPCB (Odisha), Regional Office, Industrial Estate, Angul. (With Encl.)
4. The General Manager, MCL, Talcher Area.
5. The General Manager (Environment) MCL HQ, Burla, Sambalpur.

Copy to:

1. The Colliery Manager, Deulbera Colliery/Mandapal sand mine.
2. The Area Environment Officer, Talcher Area (with Encl.)
3. The Nodal Officer (Envnt.), Talcher Colliery/Mandapal sand mine.

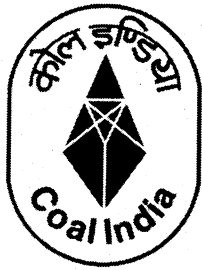
PROJECT OFFICER (T&H/D)
DEULBERA COLLIERY/MANDAPAL SAND MINE

HALF YEARLY PROGRESS REPORT OF COMPLIANCE
WITH ENVIROMENTAL CLEARANCE CONDITIONS

(OCT'2020 TO MAR'2021)

GOPINATHPUR / NIZIGARHZAMI
(MANDAPAL) SAND MINE (0.25 m³ /Annum)

TALCHER AREA



MCL

MAHANADI COALFIELDS LIMITED

TALCHER AREA
AT/PO: DERA, TALCHER, ODISHA
PIN-759103.

**COMPLIANCE OF EC CONDITIONS OF
MANDAPAL SAND MINE**

A) SPECIFIC CONDITIONS:

S.No	Specific Conditions	Compliance Status
i)	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court of Odisha and any other Court of Law, if any, as may be applicable to this project.	Accepted
ii)	Environmental clearance is subject to obtaining clearance, if any, under the wildlife (Protection) Act, 1972 from the Competent Authority, as may be applicable to this project.	It is not applicable.
iii)	No mining activities will be allowed in forest area, if any, for which the Forest clearance is not available.	There is no forest land involved in mine leasehold area; sand is being winning inside the river only.
iv)	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.	Consent to Operate (CTO) has been obtained from SPCB, Odisha and the conditions stipulated over there are being effectively implemented.
v)	Project Proponent shall implement the Disaster Management Plan as the mine lease area is located in Seismic Zone-II. Project Proponent shall appoint a Committee to have a check over any disaster to warn workers well before for the safety of the workers. Emergency helpline number will be displayed at all levels.	Disaster Management Plan is not required as the mine lease area is not located in Seismic Zone-II.
vi)	Project Proponent shall appoint an Occupational Health Specialist for Regular and Periodical medical examination of the workers engaged in the project and records maintained; also, Occupational health check-ups for workers having some ailments like BP, diabetes, habitual smokers, etc. shall be undertaken once in six months and necessary remedial/preventive measures taken accordingly. Recommendations of National Institute for Labour for ensuring good occupational environment for mine workers would also be adopted; All the old age people of the surrounding villages may be provided medical facilities.	Occupational Health Specialists have been appointed and the periodical examination of the workers is being monitored and registered. And also Coal company has much number of healthcare centers including a well-equipped Central Hospital and a specialized 'referral' hospital in the coalfield area. Healthcare facilities have been provided in the neighboring projects. The above facilities will cater to the need of employees of this project. The local people can also avail these healthcare facilities.
vii)	Project Proponent shall appoint Monitoring Committee to Monitor the replenishment study, traffic management, levels of production, River bank erosion and maintenance of Road etc.	Monitoring Committee has been framed to Monitor the replenishment study, traffic management, levels of production, River bank erosion and maintenance of Road etc.
viii)	Transport of mineral will not be done through any of the villages.	Sand transportation is taking place from the sand mine to the end-use plant/coal mine sites by tipping trucks through coal mining areas of MCL by avoiding the residential areas/villages.

ix)	Project Proponent shall ensure that the road may not be damaged due to transportation of the mineral; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	Proper maintenance of road is being carrying out to remove ruts and potholes in order to avoid any damage to the road. Loading and transportation of sand is being done as per IRC guidelines with respect to complying with traffic congestion and density.
x)	Implementation of Action Plan on the issues raised during the Public Hearing. The Proponent shall complete all the tasks as per the Action Plan submitted with the budgetary provisions during the Public Hearing.	Action plan for all the issues raised during Pubic Hearing has been implemented viz. Public road maintenance, air / water / noise pollution control measures, water supply, Healthcare facilities, Plantation & distribution, CSR fund utilization etc.
xi)	Excavation will be carried out up to a maximum depth of 3 meters from surface of mineral deposit and not less than one meter from the water level of the River Channel whichever is reached earlier.	Excavation is being carried out to a maximum depth of 2.01 m from surface of mineral deposit.
xii)	The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUC only will be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded. Project should obtain 'PUC' certificate for all the vehicles from authorized pollution testing centre.	A water tanker with sprinkler arrangement having capacity of 9 KL has been deployed to effectively arrest air borne dust particles from transportation road. And also Manual sweeping is being done to completely wipe off dust particles from the transportation road. The sand is being properly loaded, transported in trucks by covering the sand with Tarpaulin sheets. PUC certificate has been obtained for all the vehicles which are engaged in sand transportation.
xiii)	Washing of all transport vehicles should be done inside the mining lease.	Washing/cleaning of transport vehicles is carried out at workshop only.
xiv)	Permanent pillars has to be constructed to demarcate width of extraction of ROM leaving 25% of River width from the bank with depth 1.5 m below the ground and 1.2m above the ground to observe its stability.	Construction of permanent pillars for demarcation of mine leasehold area is under progress, whereas the Temporary pillars are posted along the river bank.
xv)	An independent study shall be organized during peak activity, to understand how the actual compare with the carrying capacities and further decisions taken to maintain sustainability of the essential sand extraction and supply activity. Project Proponent shall ensure that the road may not be damaged due to transportation of the sand; and transport of minerals will be as per IRC Guidelines with respect to complying with traffic congestion and density.	Proper maintenance of road is being carrying out to remove ruts and potholes in order to avoid any damage to the road. Loading and transportation of sand is takes place as per IRC guidelines with respect to complying with traffic congestion and density.
xvi)	The pollution due to transportation load on the environment shall be effectively controlled & water Sprinkling be done regularly. Vehicles with PUC only shall be allowed to ply. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying on the mineral shall not ne overloaded. Project should obtain 'PUC'	A water tanker with sprinkler arrangement having capacity of 9 KL has been deployed to effectively arrest air borne dust particles from transportation road. And also Manual sweeping is being done to completely wipe off dust particles from the transportation road. The sand is being properly loaded, transported in trucks

	certificate for all the vehicles from authorized pollution testing centre.	by covering the sand with Tarpaulin sheets. PUC certificate has been obtained for all the vehicles which are engaged in sand transportation.
xvii)	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation in conservation with Central Ground water Board.	Planning, developing and implementing facility of rainwater harvesting measures on long term basis will be taken in consultation in conservation with Central Ground water Board.
xviii)	Implementation of Environment Management Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity.	Environment Management Policy of the Company with respect to judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity is being implemented.
xix)	The project proponent shall also taken all precautionary measures during mining operation for conservation and protection of endangered flora/fauna, if any, spotted in the study area.	The project area is devoid of vegetation and wildlife. The mine site is confined to sand deposit land which is only 17.815 Ha. No flora/fauna activities will be affected by the sand mining process.
xx)	The illumination and sound at night at project site, disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. Project Proponent must ensure that the biological clock of the villages is not disturbed; by orienting the flood nights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	There is no mining activity at night hour i.e between 7 p.m to 6 a.m, so there is no disturbance to the surrounding people by means of illumination. The noise level (both day and night measurement) is being monitored on fortnight basis and the results are found well within the prescribed limits. The Monitored report is given in Annexure-III .
xxi)	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers.	Sand available in the river is always in wet condition, so there is no generation of dust particles while winning of sand. Haulage/approach road and transportation road are regularly wetted by sprinkling/spraying water through water tankers.
xxii)	Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at-least 200 meters) for the purposes of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project Proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.	The public road from Madanmohan cinema hall of Talcher town to Gopinathpur/ Nizigarzhami village about 3.1 Km distance has been widened, strengthened & constructed in RCC standards by MCL and about only 1 Km of 3.1 Km road is being utilized for sand transportation as there is no possibility of construction of 'bypass' road. Remaining part of road was constructed only for Public road network purposes.

xxiii)	Likewise, Alteration or re-routing of foot paths, pagdandies, cart roads and village infrastructure / public utilities or roads (for purposes of land acquisition for mining) shall be avoided to the extent possible and in case such acquisition is inevitable, alternative arrangements shall be made first and then only the area acquired. In these types of cases, Inspection Reports by site visit by experts may be insisted upon which should be done through reputed Institutes.	The mine leasehold area is located in the river (Brahmani) only. Hence Acquisition of land from villagers / surrounding people, Rehabilitation and Resettlement are not applicable. However a lump-sum amount (in Rs.Lakhs) will be kept annually for peripheral development activities like education, roads, water supply, health etc.
xxiv)	CSR activities by Companies including the Mining Establishments has become mandatory up to 2% of their financial Turn-over, Socio Economic Development of the neighborhood habitats could be planned and executed by the Project Proponent more systemically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment & Forest and its Regional Office located at Dehradun on six monthly basis.	Proposals pertaining to CSR works are received through Gram Panchayat / Panchayat Samiti / Municipality directly or through BDO / Sub-collector / Collector at different levels i.e. either at Project level Area level or HQ level. All such proposals are put in front of CSR Committee for co-ordination & Scrutiny. After no objection from CSR Committee, only agreed works are taken for CSR activities for estimation and tendering process. It is guided by CSR Policy of MCL. Fund is generated @Rs.5/- per ton of the coal produced in the previous financial year.
xxv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	There is no construction activities involved in the sand winning process. Hence there is no construction labours deployed in this project. Semi-skilled and unskilled workers are engaged for this project is local people. The skilled manpower has been accommodated in the established colony of the sister concern of the project. However, soak pit and septic tank combination will be provided for rest shelter at project site.
xxvi)	A final mine closure plan along with details of Corpus Fund shall be submitted to the Ministry of Environment, Forest & Climate Change 5 years in advance of final mine closure for approval.	As per the proposal, the life of the mine is about 20 years. i.e upto 2036. Mine closure plan will be prepared accordingly and it will be submitted to MoEF&CC in advance of final mine closure for approval.