

Half Yearly Compliance Report for the period October 2016 to March 2017 on compliance to the conditions stipulated in the Environmental Clearance letter no. J-11015/491/2008.IA.II (M) dated 10.04.2015 of MoEF, GOI in respect of Sarkunda Iron & Manganese Mine of M/s Feegrade & Co. (P) Limited located in Sundergarh district of Odisha

Specific Conditions	Compliance
(i) The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Odisha and effectively implement all the conditions stipulated therein.	We have obtained Consent to Establish and Consent to Operate from the State Pollution Control Board Odisha, valid up to 31.03.2020.
(ii) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.	There is no schedule I species in the study area. So, there is no requirement to obtain clearance under Wildlife (Protection) Act, 1972. However a Site Specific Conservation Plan has been prepared and approved by Chief Wildlife Warden of Odisha.
(iii) Traffic density on the route of mineral transportation shall be regularly monitored and report shall be submitted along with compliance report.	The Mining activity has been discontinued hence traffic density study report will be submitted after resumption of mining activity.
(iv) As part of ambient air quality monitoring during operational phase of the project, the 'air samples shall also be analysed for their mineralogical composition and records maintained.	The Mining activity has been discontinued ambient air quality monitoring and mineralogical composition report will be submitted after resumption of mining activity.
(v) Mineral handling plant shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	The Mining activity is discontinued. This condition will be implemented after resumption of mining activity.
(vi) Effective safeguard measures such as conditioning of ore with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Mining activity is discontinued. This condition will be implemented after resumption of mining activity.
(vii) The project authority shall implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	Mining activity is discontinued. This condition will be implemented after resumption of mining activity.

<p>(viii) Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezo meters during the mining operation. The periodic monitoring [(at least four times in a year- pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season)] shall be carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p>	<p>Mining activity is discontinued hence this study will be carried out after resumption of mining activity.</p>
<p>(ix) The project proponent shall regularly monitor the flow rate of the natural water streams Kurarhi Nadi and water stream flowing adjacent to the mine lease and maintain the records.</p>	<p>Mining activity has been discontinued hence this study will be conducted after resumption of mining activity.</p>
<p>(x) The reclaimed and rehabilitated area shall be afforested. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.</p>	<p>Mining activity is discontinued hence this report will be submitted after resumption of mining activity.</p>
<p>(xi) Dimension of the retaining wall at the toe of temporary over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.</p>	<p>Mining activity is discontinued. We will take-up all these activity after resumption of mining activity.</p>
<p>(xii) Plantation shall be raised in an specified area including a 7.5m wide green belt in the safety zone around the mining lease, backfilled and reclaimed area, around the higher benches of excavated void to be converted in to water body, roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per Ha.</p>	<p>Mining activity is discontinued. This condition will be complied after resumption of mining activity.</p>
<p>(xiii) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having</p>	<p>Mining activity is discontinued. This condition will be complied after resumption of mining activity.</p>

high levels of SPM and RPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	
(xiv) Process water discharge and/or any waste water shall be properly treated to meet the prescribed standards before reuse/discharge. The runoff from temporary OB dumps and other surface run off shall be analyzed for iron and in case its concentration is found higher than the permissible limit, the waste water should be treated before discharge/reuse.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xv) Regular monitoring of the flow rate of the springs and perennial nallahs shall be carried out and records maintained.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xvi) Regular monitoring of water quality, upstream and downstream of river shall be carried out and record of monitoring data should be maintained and submitted to Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xvii) Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with Regional Director, Central Ground Water Board.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xviii) Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xix) Sewage treatment plant shall be installed for the colony. ETP shall also be provided for workshop and wastewater generated during mining operation.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xx) Digital processing of the entire lease area using remote sensing technique shall be carried out regularly once in three years for monitoring land use pattern and report submitted to Ministry of Environment and Forests' and its Regional Office, Bhubaneswar.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xxi) Pre-placement medical examination and	Mining activity is discontinued. This

periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	condition will be complied after resumption of mining activity.
(xxii) The project proponent shall undertake all the commitments made during the public hearing and effectively address the concerns raised by the locals in the public hearing as well as during consideration of the project, while implementing the project.	Mining activity is discontinued. This condition will be complied after resumption of mining activity.
(xxiii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. All the safeguard measures brought out in the Wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	No ecologically sensitive area such as National Park/Wildlife Sanctuary/Biosphere Reserve/Tiger Reserve/Elephant Reserve etc. is reported to be located in the core and buffer zone of the mine and that the area does not form corridor for Schedule-I fauna. Site specific conservation plan has been prepared and it is approved by PCCF (WL) Orissa. Proportionate contribution has been deposited towards Site Specific & Regional Wild Life Management Plan. The plan has been submitted to the Regional Office of the MoEF in earlier compliance.
(xxiv) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Mining activity is discontinued. The final mine closure plan will be submitted in due course.

General Conditions	
(i) No change in Iron Ore Processing and scope of working should be made without prior approval of the Ministry of Environment & Forests.	Presently mining operation is discontinued. The mining technology & Scope of working will be followed after resumption of mining operation.
No change in the calendar plan including Processing/Beneficiation of mineral iron ore and waste should be made.	Presently mining operation is temporarily discontinued. There is no production or OB removal for the reporting period.
(ii) At least four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 micron i.e., PM10) and NOx monitoring.	For the time being Mining activity is discontinued hence the study will be carried out after resumption of mining activity.

<p>Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The data so recorded should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board once in six months.</p>	
<p>(iii) Measures should be taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.</p>	<p>Presently mining operation is temporarily discontinued.</p>
<p>(iv) 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.</p>	<p>Presently mining operation is discontinued.</p>
<p>(v) Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.</p>	<p>For the time being Mining activity is discontinued hence the study will be carried out after resumption of mining activity.</p>
<p>(vi) A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.</p>	<p>A separate Environment management cell has been constituted.</p>
<p>(vii) The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.</p>	<p>Expenditure incurred on environmental protection measures is attached as Annexure II</p>
<p>(viii) The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.</p>	<p>Regional Office of Ministry of Environment & Forests will be intimated.</p>
<p>(ix) The Regional Office of this Ministry located at Bhubaneswar 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.</p>	<p>Full cooperation will be provided to inspecting officers during monitoring of compliance conditions.</p>

<p>(x)The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.</p>	<p>Six monthly reports are being submitted regularly to concerned offices.</p>
<p>(xi)A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>Clearance letter has already been displayed in the concerned Panchayat.</p>
<p>(xii)The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the Collector's office/ Tehsildar's Office for 30 days.</p>	<p>A copy of EC was displayed by the State Pollution Control Board.</p>
<p>(xiii)The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.</p>	<p>A copy of environment statement is submitted to SPCB Odisha. Also copy of the same is attached as Annexure. It will also be displayed on our official website.</p>
<p>(xiv)The project authorities should advertise at least in two local newspapers of the District or State in which the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned,</p>	<p>The EC was advertised in two news paper.</p>

<p>within 7 days of the issue 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 also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar.</p>	
<p>10. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.</p>	<p>Agreed.</p>
<p>11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p>Agreed.</p>
<p>12. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Odhisa and any other Court of Law relating to the subject matter.</p>	<p>Agreed.</p>
<p>13. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.</p>	<p>Agreed.</p>