



HIL/SEM/MoEF/83

Date- 30/11/2020

The Director,  
Ministry of Environment and Forests & CC  
Bhubaneswar,

**Subject:** Regarding Compliance to conditions under Environment Clearance (EC vide letter No. J-11015/411/2005-IA. II(M) dated 07/09/2006) of Maliparbat Bauxite Mining project located in village Aligaon, Kankaramba & Sorishpadar , Tehsil Semeliguda, District Koraput, Odisha.

Respected Sir,

With reference to above subject, we would like to bring your kind notice that due to discontinues of mining activities in past at our Maliparbat Bauxite Mining Project, we were unable to conduct Environmental Monitoring and field compliances. This mainly due to the fact that in past we have received direction and advise not to carried out any activity from the statutory authorities due to prevailing law & order situation at that point of time. We have also informed about the same to your good office vide our letter dated HIL /SEM/MoEF/16-17/147 on dated 1<sup>st</sup> December 2016. Thereafter as per the order received from Govt. of Odisha our lease was in lapse condition till 7<sup>th</sup> March 2019.

Now, we are pleased to inform you that, Director of Mines Govt. of Orissa has revived our mining lease in March 2019 and given direction to start mines at earliest without causing breach of peace and with the consent of district administration so that law and order problems are avoided. We are in process of resumption of mining activities at earliest. We are also doing plantation job in and around mining lease area with proper intimation to forest department Koraput. We are carrying out CSR activities in near by Mines area continuously since inception of lease period to cater CSR needs of area to extent possible.

We herewith attach status of compliance of EC conditions as required. (enclosed).

Sir, we hope that you will find our submission in order.

Thanking you.

Yours faithfully,

Pratap Kumar Patra

Agent- Maliparbat Mines

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## COMPLIANCE REPORT

NAME OF THE PROJECT-  
ENVIRONMENT CLEARANCE NO .

MALIPARBAT BAUXITE MINES  
No. J11015/411/2005-IA.II(M)  
Dtd. 07<sup>th</sup> September, 2006

PERIOD OF COMPLIANCE REPORT-

April 2020 to September 2020

SR.NO	CONDITIONS	COMPLIANCE STATUS
1	All the conditions stipulated by the State Pollution Control Board in their consent to establish should be effectively implemented.	The mining activity is discontinued as of now. We are doing activities like plantation and CSR activity. We are committed to start the mining activity at earliest for which all required efforts are under progress. All the applicable conditions stipulated by the SPCB will be effectively implemented post resumption of mining activities.
2	Top soil shall be stacked properly with proper slope with adequate measures and should be used for reclamation and rehabilitation of mined out areas	Top soil generated during mining activities in past has been evenly stacked and same was spreaded over in slopes and scarps where plantation was carried out. In future whatever top soil will be generated as per mining plan shall be used for reclamation and rehabilitation of mined out areas.
3	The waste generated in the initial period shall be dumped temporarily and back filled in the mined out area. There shall be no permanent external OB dump in the project area. Concurrent back filling should start from the fifth year onwards. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self sustaining. Compliance status should be submitted to the Ministry of Environment and Forest on six monthly basis.	The waste generated during the course of mining has been dumped separately in earmarked areas, concurrent back filling of waste shall start in due course of time post resumption of mining activities. There will be no permanent external OB dump in the project area at the end of mine life. Post resumption of mining activity, backfilling, monitoring and management of rehabilitated area shall be done till vegetation becomes self-sustaining. The compliance status in this regard shall be submitted to MoEF & CC on six monthly basis once back filling starts.
4	Catch drains and siltation ponds of	

	<p>appropriate size should be constructed to arrest silt and sediment flow from the working pit, soil and mineral dumps.</p> <p>The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should regularly desilted particularly after monsoon and maintained properly. Garland drain (size, gradient and length) shall be constructed for mine pit and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of garland drains and desilted at regular intervals</p>	<p>The Mining activities are discontinued as of now. However, after the resumption of mining activities catch drain and siltation pond will be constructed and maintain to arrest silt and sediment flow from working pits. The water collected in mined-out pits will be used for roads, green belt development etc.</p> <p>The garland drains and sump will be constructed wherever required as per the required design and same will be repaired before monsoon every year and desilted.</p>
5	<p>Plantation shall be raised in an area of 90.84ha including a green belt of adequate width by planting native species around the ML area, roads around void etc. in consultation with the local DFO /Agricultural Department. The density of trees should be around 2000 plants per ha</p>	<p>We are in regular touch with the local DFO / Agricultural Department for development of the green belt of adequate width for dust suppression in and around the mining area. We are also carrying out plantation activity as required in and around the mining area.</p>
6	<p>The mining operations shall not intersect groundwater table. Prior approval of the Ministry of Environment &amp; Forests and Central Ground water Authority shall be obtained for mining below water table</p>	<p>Mining operations were confined to the plateau top only and not intersected the Ground water table any time in past when activities was in progress. The same statusco will be maintain in future.</p> <p>There will be no chance to intersect the mining activities with ground water table as mine plateau is located much above this water table. However, we undertake and understand that prior approval of the Ministry of Environment and Forests and Central Ground Water Authority as required will be taken if needed at any point of time.</p>
7	<p>The project authority should implement suitable conservation measures to augment groundwater resources in the area in consultation</p>	<p>A network of existing wells was being used to carry out regular monitoring of ground water level and quality. Continuous efforts is on to start monitoring activity</p>

	<p>with the Regional Director, Central Ground Water Board.Submission . We shall implement conservation measures to augment ground water resources in the area in consultation with the Regional Director,Central Ground Water Board in due course of time.Regular monitoring of ground water level should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter(January) and the data thus collected may be sent regularly to MoEF, Central Ground Water Authority and Regional Director, Central Ground Water Board.</p>	<p>again at the earliest.</p>
8	<p>Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year - pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter(January) and the data thus collected may be sent regularly to MoEF, Central Ground Water Authority and Regional Director, Central Ground Water Board</p>	<p>This was complied when mining activities was in progress. A network of existing wells was used to carry out regular monitoring of groundwater level and quality. Continuous efforts is on to start monitoring activity again at the earliest after resumption of Mining activities.</p>
9	<p>Prior permission from the competent authority should be obtained for drawl of water from the surface water bodies i.e. Kundli Nallah</p>	<p>The Water Resource Department, Government of Orissa has accorded permission for drawl of water from Kundli Nallah to meet our requirements vide its letter No. Irr-II. WRC-45/06 13366/WR dated 21.04.2006. A water drawl agreement to this effect was signed with the Executive Engineer, Upper Kolab Head Works Division, Kolabnagar, Dist. Koraput. Renewed on Jan 2016. Monthly Water payment is being done regularly.</p>
10	<p>The project proponent shall undertake monitoring of springs (two main perennial springs on the southern side, two springs on the northern</p>	<p>Due to local issue and few disturbances in that area we are not able to carry out this during the above period.Continuous efforts are on to start monitoring of springs</p>

	side), in addition to six ground water-monitoring stations as specified by State Pollution Control Board on long term basis both in terms of quantity and quality of water and records maintained. Six monthly reports should be submitted to the Ministry of Environment and Forests and its Regional Office located at Bhubaneswar.	activity at the earliest.
11	Vehicular emission should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral. The vehicles should be covered with a tarpaulin and should not be over loaded.	Healthy maintenance practices will be followed to keep vehicular emission will be under control post resumption of mining activities. All loaded trucks will be covered with tarpaulin and measures to avoid over loading of trucks will be established.
12	The voids created at the end of mining shall be converted into water body with shallow depths not exceeding 30m. The higher benches of the excavated void/mine pit shall be terraced and plantation done to stabilize the slopes. Peripheral fencing shall be done along the excavated area	The entire mined out area over 109 ha. will be back-filled and reclaimed at the end of life of mine. The higher benches of the back filling area will be terraced and plantation will be done to stabilize the slopes. The low benches or low lying area will be created as water bodies as applicable at the point of time. At present 0.138 ha. water bodies created at the site. Peripheral fencing will also be done along the excavated area and also wherever required.
13	The project proponent shall adopt wet drilling.	Wet drilling will be adopted during the drilling operation.
14	Blasting operation should be carried out only during day time. Controlled blasting should be practiced. The mitigate measures for control of ground vibrations and to arrest fly rocks and boulder should be implemented.	Controlled blasting techniques (NONEL) will be practised to control of ground vibration, noise, arrest fly rock and boulders etc. Blasting will be carried out only in the day time as per the requirement of MMR1961.
15	Consent to operate should be obtained from SPCB prior to start of production from the mine	The Consent to operate under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974 has been granted to our project by the State Pollution Control Board, Odisha for the period up to 31.03.2022 vide letter no.3833/IND-ICON-5437 Dtd 27.03.2020.
16	Sewage treatment plant should be	No township / Colony at the mining site is

	installed for the colony. ETP should also be provided for work shop and waste water generated from mining operations	proposed and hence the installation of STP is not applicable. All workers will residing in near by villages as applicable. Provision of septic tank andsoak pit shall be made for a small quantity of sewage that may generate . Oil trap will be provided in workshop/ near washing ramp where oil and grease will be trapped . The treated water will be used for dust suppression and plantation as required.
17	Digital Processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to MoEF and its Regional Office.	Digital processing of the lease area using remote sensing technique will be done once in three years for monitoring land use pattern and report of the same shall be submitted to MoEF & CC its Regional Office after of Mining activities
18	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment and Forest 5 years in advance of final Mine Closure for approval.	Final Mine Closure Plan along with details of Corpus Fund will be submitted to the MoEF & CC five years in advance of the final closure for approval as per applicable statue.

## GENERAL CONDITION

SR.NO	CONDITIONS	COMPLIANCE STATUS
<u>1</u>	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment and Forests	There will be no change in mining technology and scope of working without prior approval of the Ministry of Environment and Forests.
<u>2</u>	No change in the calendar plan including excavation, quantum of mineral bauxite and wasteshould be made	There will be no change in the calendar plan. Mining will be carried out post resumption in accordance with approved mining plan/scheme.
<u>3</u>	Conservation measures for protection of flora & fauna in core & buffer zone should be drawn up in consultation with the local forest and wild life departments.	We shall consult the local forest and wild life departments to draw conservation measures for protection of flora and fauna in core and buffer zone.
<u>4</u>	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO <sub>2</sub> , NO <sub>x</sub> monitoring .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.	This was complied when mine was in operation.Due to local issue and few disturbances in that area we are not able to carry out this during above period. All the parameter will be monitored after resumption of Mining activities. Continuous efforts is on to start monitoring activity at the earliest .
<u>5</u>	Data on ambient air quality (RPM, SPM, SO <sub>2</sub> ,NO <sub>x</sub> ) should be regularly submitted to the Ministryincluding its Regional Office located at Bhopal andthe State Pollution Control Board/ Central Pollution Control Board once in six months	This was complied when mine was in operation. Due to local issue and few disturbances in that area we are not able to carry out this during above period.  Continuous efforts is on to start monitoring activity at the earliest .
<u>6</u>	Fugitive dust emission from all sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points	This was complied when mining activity was in progress .The same compliance will be followed post resumption of mining activities.

	should be provided and properly maintained	
<u>7</u>	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	This was complied when mining activities were in progress. Post resumption mining activities same will be complied.
<u>8</u>	Industrial waste water (workshop & waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31 <sup>st</sup> December, 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of workshop effluents.	This was complied when mining activity was in progress. Post resumption mining activities same will be complied.
<u>9</u>	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. 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	This was complied when mining activity was in progress. Post resumption of mining activities same will be complied.
<u>10</u>	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.	Environment Management cell is in place under the control of AGM-Mines who is also working as Agent of mines.
<u>11</u>	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.	The mine was operational in past hence provision related financial closures is not applicable.
<u>12</u>	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.	Separate account maintained for environmental protection & its monitoring. We are continuing plantation and CSR activity in surrounding area. In future also same practice will continue.



13	The Regional Office of the 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	We note that the Regional Office of the Ministry located at Bhubaneswar will monitor compliance to the stipulated conditions of the environmental clearance accorded by Ministry of Environment and Forests, New Delhi. We humbly submit that all best cooperation will be extended to the officials of the regional office by furnishing requisite data / information / monitoring report etc.
14	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation was received while processing the proposal.	The requirement under the condition has already been complied with.
15	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	The requirement under the condition has already been complied with.
16	The project authorities should advertise at least in two local news papers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubaneswar	The requirement under the condition has already been complied with.
17	The Ministry or any other competent authority may alter / modify the above conditions or stipulate any further condition in the interest of environmental protection.	We agree and note that the Ministry or any other competent authority can alter or modify the above conditions or stipulate any further condition in the interest of environment protection.
18	Failure to comply any of the following conditions mentioned above may result in withdrawal of the clearance and attract action under the provision of environment (protection) act, 1986.	We agree and understand that failure to comply with any conditions mentioned in the letter according to Environment Clearance can result in withdrawal of the clearance and attract actions under the provisions of Environment (Protection) Act, 1986.

<u>19</u>	The above conditions will be enforced <i>inter-alia</i> , under the provisions of the Water (Prevention and 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.	We note the above conditions are enforced <i>inter-alia</i> , under the provisions of the Water (Prevention and 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.
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We trust your good self will find the above in order.

Thanking you

Yours faithfully



(Pratap Patra)

Agent- Maliparbat Bauxite Mines

For Hindalco Industries Ltd.