



HIL/SEM/MoEF/45/2020-21

Date- 02/06/2020

**The Director,
Ministry of Environment and Forests,
Bhubaneswar,**

Subject: Regarding Compliance to conditions under Environment Clearance(EC) to Maliparbat Bauxite Mining project located in village Aligaon, Kankaramba, 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 kind office vide our letter dated HIL /SEM/MoEF/16-17/147 on dated 1st December 2016. Thereafter as per the order received from GOO Odisha our lease was in lapse condition till 8th March 2019.

Now, we are pleased to inform you that, Director of Mines 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 have started some activities like repairing of our mines approach road, plantation job etc. in and around mining lease area with proper intimation to forest Range office, Semeliguda, Koraput. We are also carrying out CSR activities in nearby Mines area continuously since inception of lease period to cater CSR needs of area to extent possible.

As you are aware that this project has got EC vide letter No. J-11015/411/2005-IA. II(M) dated 07/09/2006 and now since our lease got revived recently in March 2019, 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 sir

Yours faithfully,
Pratap Kumar Patra
Agent- Maliparbat Mines

Copy to - paribesh1@ospboard.org , rospcb.rayagada@ospboard.org

COMPLIANCE REPORT

NAME OF THE PROJECT- MALIPARBAT BAUXITE MINES

CLEARANCE LETTER /S NO AND DATE- No. J11015/411/2005-IA.II(M)

Dtd. 07th September, 2006

PERIOD OF COMPLIANCE REPORT- October 2019 to March 2020

SPECIFIC CONDITION

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.	<p>The mining activity is discontinued as of now. We are doing ancillary activity like plantation and CSR activity. We are committed to start the mining activity at earliest for which all required efforts are under progress.</p> <p>All the applicable conditions stipulated by the State Pollution Control Board will be effectively implemented post resumption of mining activity as done in past.</p>
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.	<p>Top soil generated during operation of mining in past has been evenly stacked with proper slope at earmarked site with adequate measures.</p> <p>This will be used for reclamation and rehabilitation of mined out areas post resumption of mining activity.</p>
3	The waste generated in the initial period shall be dumped temporarily and backfilled in the mined out area. There shall be no permanent external OB dump in the project area. Concurrent backfilling 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.	<p>The waste rock generated during the course of mining has been dumped and stacked separately in earmarked areas, concurrent backfilling of waste shall start in due course of time post resumption of mining operations.</p> <p>There will be no permanent</p>

		<p>external OB dump in the project area.</p> <p>Post resumption of mining activity, backfilling, monitoring and management of rehabilitated area shall be done till vegetation becomes self sustaining.</p> <p>The compliance status in this regard shall be submitted to Ministry of Environment and Forest on six monthly basis once backfilling starts.</p>
4	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flow from the working pit, soil and mineral dumps. 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 activity is discontinued as of now. We are doing ancillary activity like plantation and CSR activity. We are committed to start the mining activity at earliest for which all required efforts are under progress.</p> <p>The mining will be done post resumption taking due care of all provision mentioned herewith in respect of garland drain , sump etc.</p>
5	<p>Plantation shall be raised in an area of 90.84 ha 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 during the 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 mining area.</p>
6	<p>The mining operations shall not intersect groundwater table. Prior approval of the Ministry of Environment & Forests and Central Groundwater Authority shall be obtained for mining below water table</p>	<p>Mining operations is confined to the plateau top only and do not intersect the groundwater table when mine was operational. There is also no chance to intersect mining operation post resumption of the same as</p>

		<p>mine plateau is located much above this water table.</p> <p>In future also mining operation will be restricted above water table post resumption of mining operation.</p> <p>We undertake and understand that prior approval of the Ministry of Environment and Forests and Central Ground Water Authority required and will be abided in case required.</p>
7	<p>The project authority should implement suitable conservation measures to augment groundwater resources in the area in consultation 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 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>A network of existing wells was being used to carry out regular monitoring of ground water level and quality. Due to local issue and few disturbances in that area we are not able to carry out this during above period.</p> <p>Continuous efforts is on to start monitoring activity 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 compiled when mine was operational.</p> <p>A network of existing wells is being used to carry out regular monitoring of ground water level and quality. Due to local issue and few disturbances in that area we are not able to carry out this during above period.</p> <p>Continuous efforts are on to start monitoring activity at the earliest.</p>

9	Prior permission from the competent authority should be obtained for drawl of water from the surface water bodies i.e. Kundli Nallah	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.
10	The project proponent shall undertake monitoring of springs (two main perennial springs on the southern side, two springs on the northern side), in addition to six groundwater-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.	This was complied when mine was operational. 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 .
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 overloaded.	Vehicle emission was under control when mine was in operation and we will also regularly monitoring it post resumption of mining activity. Healthy maintenance practices will be followed to keep vehicular emission under control post resumption of mining activity; Provision for covering of the truck with tarpaulin and measures to avoid overloading of transport truck will be established and followed post resumption of mining activity.

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	<p>Post resumption of mining activity, the void created at the end of mining will be converted into water bodies, the higher benches of the excavated void / mine pit will be terraced and plantation will be done to stabilize the slopes.</p> <p>Peripheral fencing will also be done along the excavated area.</p>
13	The project proponent shall adopt wet drilling.	This was complied when mine was operational and will continue post resumption of mining activity.
14	Blasting operation should be carried out only during daytime. Controlled blasting should be practiced. The mitigate measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	This was complied when mine was operational and will also continue post resumption of mining activity.
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, Orissa 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 installed for the colony. ETP should also be provided for workshop and waste water generated from mining operations	No township at the mining site is there and proposed and hence the installation of STP is not applicable. Provision of septic tank and soak pit shall be made for a small quantity of sewage that may generate .The workshop with proper system to treat waste water will be made functional post resumption of mining operation. 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.	Post resumption of mining activity, 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 Ministry of Environment and Forests and its Regional Office.
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 Ministry of Environment and Forest five years in advance of the final closure for approval as per applicable statute.

GENERAL CONDITION

<u>SR.NO</u>	<u>CONDITIONS</u>	<u>COMPLIANCE STATUS</u>
<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 waste should 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 wildlife departments.	We shall consult the local forest and wildlife 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 ₂ , NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and	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

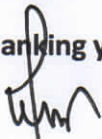
	environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	during above period. Continuous efforts is on to start monitoring activity at the earliest .
<u>5</u>	Data on ambient air quality (RPM, SPM, SO ₂ , NO _x) should be regularly submitted to the Ministry including its Regional Office located at Bhopal and the 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 should be provided and properly maintained	This was compiled when mine was in operation .The same compliance will be followed post resumption of mining activity.
<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 compiled when mine was in operation. Post resumption mining operation 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 31st December, 1993 or as amended from time to time. Oil and Grease trap should be installed before discharge of workshop effluents.	This was compiled when mine was in operation. Post resumption mining operation 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 compiled when mine was in operation. Post resumption mining operation 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/unit head 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 & it's monitoring was maintain. We are continuing plantation and CSR activity in surrounding area. In future also same practise will continue.
<u>13</u>	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
<u>14</u>	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.
<u>15</u>	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.
<u>16</u>	The project authorities should advertise at least in two local newspapers 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 http://envfor.nic.in 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.
<u>17</u>	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
<u>18</u>	Failure to comply with any of the following conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	We agree and understand that failure to comply with any of the conditions mentioned in the letter according to Environment Clearance can result in withdrawal of the clearance and attract action 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 & 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 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 rule.

We trust your good self will find the above in order.

Thanking you



Yours faithfully

For Hindalco Industries Limited

Agent – Maliparbat Bauxite Mines.