

Date: 23/11/2016

To

✓ Additional Director (South)
Ministry of Environment & Forest
Regional Office (Southern Zone)
Kandriya Sadan, IVth Floor, E & F Wings,
17th Main Road, II Block Koramangala,
Bangalore-560 034

Subject: 'Six Monthly Compliance Report of Orasso Dongor Iron Ore Mine (T. C. No. 76/1952), Goa' for the period of April 2016 to September 2016

Respected Sir,

We are herewith submitting the condition wise compliance report & corresponding annexures and CD as per the conditions and their corresponding annexures laid down in the Environmental Clearance J-11015/70/2006-IA.II (M) dated 18/04/2007 for "Orasso Dongor Iron Ore Mine (T.C.No.76/1952)" for the period **April 2016 to September 2016**.

Thanking You

Yours faithfully,

For Vedanta Limited


Irshad Mamlekar
Mines Manager
OD Mine

Enclosures: Six monthly compliance report & corresponding annexures and CD of Orasso Dongor Iron Ore Mine for the period of **April 2016 to September 2016**

**C.C – Member Secretary, Goa State Pollution Control Board
-- CGWB**

**Compliance report to conditions of environmental clearance issued by
Ministry of Environment & Forests, Govt. of India for
Orasso Dongor Mines (T.C. No. 76 of 1952)
Letter no. J-11015/70/2006-IA.II(M)
Period April 2016 to September 2016**

Sr. No.	Condition of clearance	Status of compliance	Remarks
A.	Specific conditions		
(i)	Topsoil, if any shall be stacked properly with proper slope with adequate safeguards and should be used for reclamation and rehabilitation on mined out areas.	There is no topsoil encountered in the mining lease area as operations are taken up in already broken up area. If any topsoil encountered in mere future it will be stacked separately and utilized for reclamation activity.	
(ii)	Overburden shall be stacked at enmarked dump site(s) and shall not be kept active for long period. The maximum height of the dump shall not exceed 30m each stage shall preferably be of 10m. And over all slopes of the dumps shall not exceed 28°. In critical areas use of geotextiles shall be undertaken for stabilisation of the dumps. Back filling	Overburden is stacked/dumped at ear marked site as per approved Mining Plan. The overall slope of the dumps does not exceed 28°. Backfilling will be done as per approved mining plan. The finalized areas / dump slopes are covered with geo-textiles and subsequently taken up for plantation of native species as	

	<p>start concurrently. The OB dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface runoff. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on a six-monthly basis.</p>	<p>well as fast-growing species. Necessary aftercare like irrigation, manuring, weeding etc. is provided to plants. Compliance reports are submitted to MoEF regularly every six months.</p>	
(iii)	<p>Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine workings and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly. Garland drains (size, gradient and length) shall be constructed for both mine pits and for waste dumps and dump capacity should be</p>	<p>All the mine runoff water is channelized into mining pits & settling ponds through trenches and electrical resistant welding (erw) pipes of 600mm diameter for a length of 250m. Catch drains with dimensions of around 1500m × 1m × 0.5m are constructed and series of five settling ponds with a combined capacity of 10000m³ are provided at the toe of the dumps. The settling ponds are desilted every year before monsoon. Garland drains are constructed all along the mine and dump</p>	<p>However, there were no operations during the said period (April 2016 to September 2016).</p>

	<p>designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 yrs 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 the garland drains and desilted at regular intervals.</p>	<p>stages to channelize the water.</p>	
(iv)	<p>Dimension of the retaining wall at the toe of dump and overburden benches within the mine to check runoff and siltation shall be based on the rain fall data.</p>	<p>Depending upon the highest rainfall the area has received, rock wall/retaining wall (dimension around 110m × 2.5m × 1m is provided) and check dams are constructed at the toe of the dump to prevent the silt flow. Stone pitching of around 200m² area is carried out at the toe of the dump.</p> <p>Garland drains are constructed all along the mine and dump stages to channelize the water. Series of five settling ponds are constructed at the toe of</p>	

