

✓ To,  
The Additional Director (South)  
Ministry of Environment and Forest  
Regional Office (Southern Zone)  
Kendriya Sadan, IVth Floor, E & F Wings  
17<sup>th</sup> Main Road, II Block, Kormangala  
Bangalore – 560 034

Date: 23.11.2016

**Sub: Six monthly compliance report of Sanquelim group of Iron Ore Mines (T.C. No. 3/54, 9/49, 10/49), Goa for the period April 2016 to September 2016.**

Respected Sir,

We are herewith submitting the condition wise compliance report as per the conditions & their corresponding annexures along with CD of laid down in the Environmental Clearance Letter No: J-11015/28/2006-IA.II(M) dated 06/07/2007 for the period **April 2016 to September 2016.**

Thanking you,

Yours faithfully,



Mr. Umesh Kadam  
Mines Manager  
Sanquelim Group of Mines

**Enclosed:** Six monthly compliance report & annexures along with CD of the Sanquelim Group of Iron Ore Mines for the period **April 2016 to September 2016.**

C.C – Member Secretary, Goa State Pollution Control Board

Date: 23.11.2016

To,

The Regional Director  
CGWB, 27th Main, Sector 1,  
7th Cross Rd, HSR Layout 5th Sector,  
Bengaluru, Karnataka

**Sub: Ground water Reports according to Six monthly compliance report of Sanquelim group of Iron Ore Mines (T.C. No. 3/54, 9/49, 10/49), Goa for the period April 2016 to September 2016.**

Respected Sir,

We are herewith submitting the ground water reports as per the conditions laid down in the Environmental Clearance J-11015/28/2006-IA.II(M) dated 06/07/2007 for the period April 2016 to September 2016.

Thanking you,

Yours faithfully,

**For Vedanta Ltd.**

Mr. Umesh Kadam  
Mines Manager  
Sanquelim Group of Mines

**Enclosed:** Ground water Reports.

C.C. 1. Member Secretary, Goa State Pollution Control Board  
✓ 2. MoEFCC

**Compliance report to conditions of Environmental Clearance issued by**

**Ministry of Environment & Forests, Govt. of India, for Sanquelim Group of Mines (T.C. No.9 of 1949, 10 of 1949 & 3 of 1954)**

**Letter No. J-11015/28/2006-IA.II(M) dated 6<sup>th</sup> July 2007**

**Production: 0.2 MTPA as per Environment clearance, however the current production limit is 0.09 MTPA as per capping imposed by state govt.**

**Period – April 2016 to September 2016**

S. No	Condition of clearance	Status of compliance	Remarks
A.	<b>Specific Conditions</b>		
(I)	All the conditions stipulated by the State Pollution Control Board in their NOC should be effectively implemented.	All the conditions are effectively implemented	
(ii)	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 within area utilized for mining operations.	
(iii)	There shall be no new external over burden dump created.	Dumping of waste would be in accordance of approved mining plan.	
(iv)	The existing over burden should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas use of geo textiles shall be undertaken for stabilization of dumps. Monitoring and management of rehabilitated areas should be submitted to the Ministry of Environment & Forests on six monthly basis.	Sanquelim mine is scientifically vegetated by horti-silvicultural methods around the dump slopes. The best reclamation and rehabilitation practices are in place.	A detailed biodiversity management plan is being prepared in association with CEE. The study period is one year and final report is expected in Dec'16.
(v)	Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB	Mine and dump runoff is channelised into the working pit through the garland drains. There is	

	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 drain (size, gradient and length) shall be constructed for both mine pit and for waste dump 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 the garland drains and desilted at regular intervals.	no discharge outside mining lease.	
(vi)	Drilling and blasting shall not be undertaken.	Drilling and blasting are not carried out in the mine.	
(vii)	Plantation shall be raised in an area of 132.058 ha including green belt of adequate width by planting the native species around the ML area, roads, reclaimed area etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 2000 plants per ha.	Thick dense plantation is done all along the mining lease area, dump slopes. Both native and local species are planted by adapting horti silvicultural method of vegetation.	A detailed biodiversity management plan is being prepared in association with CEE. The study period is one year and final report is expected in Dec'16.
(viii)	The project authority should implement suitable conservation measures to augment ground water resources in area in consultation with the Regional Director, Central Ground Water Board.	Mining pits are utilized for harvesting the rain water. The rain water harvested in mining pit is utilized for the dust suppression, vehicle washing etc.	Rain water accumulated in the mining pit is used for the dust suppression and rehabilitation purpose.
(ix)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and	Monitoring of Ground water level and Quality is carried out and the results are submitted to	Graphical representation of Water Monitoring Results is

