

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-560034

Subject: 'Six Monthly Compliance Report of Bicholim Iron Ore Mine, Goa' (T.C.No. 11/1941, 12/1941, 13/1941, 14/1941 and 15/1941) for April 2016 to September 2016

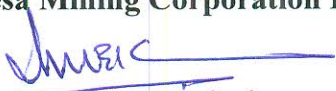
Respected Sir,

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-11015/45/2005-IA.II(M) dtd 17.09.2007** for "Bicholim Iron Ore Mine (T.C.No. 11/1941, 12/1941, 13/1941, 14/1941 and 15/1941)" for the period **April 2016 to September 2016**.

Thanking You

Yours faithfully,

For Sesa Mining Corporation Limited,



Santosh C. Mandrekar
Mines Manager
Sesa Mining Corporation Ltd.,
Bicholim Iron Ore Mine
Bicholim, Goa.

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

C.C – Member Secretary, Goa State Pollution Control Board
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**Compliance to conditions of Environment Clearance issued by
Ministry of Environment & Forest for Bicholim Iron Ore Mine
Letter No. J-11015/45/2005-IA.II(M) dtd 17.09.2007**

Period: April 2016 to September 2016

Sr.No	EC Condition	Status of compliance	Remarks
A.	Specific Conditions		
(i)	Prior approval of the Chief Wild Life Warden, Govt. of Goa shall be obtained for mining within 10 km of the buffer zone of Dr. Salim Ali Bird Sanctuary.	The eco sensitive zones for the state of Goa have been notified by MoEF and Bicholim mines is out of the zone. As such the provision of Wild Life Protection Act is not applicable.	
(ii)	No dumping of overburden where natural slope is already exceeding 28° angle.	No dumping of overburden is carried out where natural slope is already exceeding 28° angle.	
(iii)	Top soil should be stacked properly with adequate measures at earmarked dump sites. It should be used for green belt development & for reclamation & rehabilitation of the mined out areas.	The mine is in operation for last 50 years and most of the areas within the mining lease are broken up for mining. Hence there would be no generation of top soil.	

(iv)	OB and other wastes should be stacked at earmarked sites and should not be kept active for long periods of time. Plantation should be taken up for soil stabilization along the slopes of the dumps and terraced after every 5-6 m of height and overall slope angle shall be maintained at 25-26°. Sedimentation pits shall be constructed at the corners of the garland drains. Retention/Toe walls shall be provided at the base of the dumps.	Dumping of waste is carried out at ear marked sites as per the approved mining plan. Most of the Overburden is backfilled into pits and are stabilized with geotextile & plantation. Water is been channelized into the settling pit. Series of sedimentation pits are constructed at the corners of the garland drains and same are desilted before the onset of monsoon every year.	
(v)	Use of geotextile for dump stabilization shall be taken up in critical areas.	Geotextile are extensively used for covering dump slopes to prevent soil erosion.	Dumps are covered with the geotextile
(vi)	Catch drains and siltation ponds of appropriate size, gully plugs and check dams should be constructed to arrest silt and sediment flows from the mining operations. Desilting operations shall be undertaken regularly and particularly after every	All the runoff water is channelized into mining pits. Additionally garland drains and series of settling ponds of appropriate size and check dams are constructed to arrest silt and to ensure no sediment flow from the mining operations.	Following measures were taken: De-silting Rock wall constructions Garland drain

	<p>monsoon. Garland drain (size, gradient and length) shall be constructed for both mine pit and for waste dump. Sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall 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. Desilted operations shall be undertaken after every monsoon.</p>	<p>Desilting of the settling ponds to increase their capacity is carried out before the onset of monsoon every year.</p>	
(vii)	<p>No drilling and blasting shall be undertaken without approval of the competent authorities.</p>	<p>No drilling and blasting is carried out in the mine. Hard material is broken by means of high capacity ripper dozer</p>	
(viii)	<p>Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of</p>	<p>Regular maintenance of vehicles and mining machineries are carried out by Company's own</p>	

