

Ref No: SRL/2016/CO-ECC-1

Date: 24.05.2016

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

**Sub: Six monthly compliance report of Colomba Iron Ore Mine (T.C. No. 35 Of 1952), Goa for the period October 2015 to March 2016.**

Respected Sir,

We are herewith submitting the condition wise compliance report as per the conditions laid down in the Environmental Clearance Letter No. J-11015/156 /2005-IA-II (M) dated 17/11/2005 for the period **October 2015 to March 2016.**

Thanking you,  
Yours faithfully,



**Vijayanand Chakrasali**  
Mines Manager

**Enclosed:** Six monthly compliance report of Colomba Iron Ore Mine for the period October 2015 to March 2016.

C.C: 1. Member Secretary, Goa State Pollution Control Board  
2. CGWB

**Sesa Resources Ltd.**

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CIN No.: U13209GA1965PLC000030

**Compliance report to conditions of environmental clearance issued by**

**Ministry of Environment & Forests, Govt. of India, for Colomba Iron Ore Mine (T.C. No. 35 of 1952)**

**Letter No. J-11015/156/2005-IA.II(M)**

**Production: 0.1 MTPA as per Environment clearance, however the current production limit is 0.045 MTPA as per capping imposed by state govt.**

**Period : October 2015 – March 2016**

<b>S. No</b>	<b>Condition of clearance</b>	<b>Status of compliance</b>	<b>Remarks</b>
<b>A.</b>	<b>Specific Conditions</b>		
(i)	The environmental clearance is accorded only for two years during which period detailed hydro geological study (quality and quantity) on impact of mining on hydrogeology (pre-monsoon, monsoon and post-monsoon) shall be carried out and the report submitted to Ministry.	Environment clearance was granted dated 17.11.2005 and extension of validity vide letter No. J-11015/156/2005-IA-II(M) dated 02.01.2008  Hydro geological report submitted to MoEF on December 2006.	Mining operations have not resumed.
(ii)	Prior approval of the Chief Wildlife Warden, Government of Goa shall be obtained for mining at distance of 3 km from Netravali Wildlife Sanctuary.	CWLW permission was accorded initially for a period of two years vide letter no 6-13-(4)-2003-FD/Vol.II/ 5103 dated 24/02/2006 to 21/11/2007 and renewed vide letter no.6-13-(4)-2007-FD/Vol.I/ 3264 dated 1/10/2009	

(iii)	No dumping of OB where natural slopes already exceeding 28° angle.	The Place identified for Dumping does not exceed slope of 28°.	Mining operations have not resumed.
(iv)	Top soil should be stacked properly with adequate measures at earmarked sites. It should be used for reclamation and rehabilitation' of the mined out areas.	Whatever top soil encountered was used for Green belt Development purpose and no top Soil is Present now.	
(v)	OB and other wastes should be stacked at earmarked sites only and should not be kept active for long periods of time. Plantation should be taken up for soil stabilization along the slopes of the dump and terraced after every 5-6 m of height and overall slope angle shall be maintained not exceeding 28°. Sedimentation pits shall be constructed at the corners of the garland drains. Retention/Toe walls shall be provided at the base of the dumps.	OB and other waste are stacked at the earmarked site and these sites remain active for maximum five years and plantation is carried out after finalizing the site along the slopes. The total height of dump is around 20m and comprising of three stages. Overall slope angle is maintained within 28°. Sedimentation pits are constructed at possible corners of the Garland Drains. Retention/Toe walls are constructed at the toe of the dumps.	For the year 2015-2016, 600 Nos. of Plantation was carried out as gap filling.
(vi)	Use of geotextiles for dump stabilization shall be taken up in the critical areas.	Geotextiles are used for erosion control and stabilizing the dump slopes at critical areas observed.	
(vii)	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 very monsoon. Garland drain (size, gradient & length) shall be constructed for both mine pit and for the waste dump. Sump capacity should be designed keeping 50% safety margin over and above the 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. Desilting operations shall be undertaken after very monsoon.	Trenches / Garland drains are constructed at the foot of the dumps. Settling ponds of sufficient depth are constructed at the toe of dump, keeping in mind the rainfall data. Desilting of settling ponds is carried out before onset of monsoon. Lateritic boulder walls are constructed at the toe of the dump. All the mine run-off water is channelized through garland drains into the mine pit .The water is treated with lime and Magnasol if required and clean water is pumped out.	

