

20<sup>th</sup> September, 2018

To,  
 The Environment Officer,  
 Karnataka State Pollution Control Board,  
 House No. C.A-2, 3rd Main, K.H.B Colony  
 Behind Pragathi Gramin Bank, Near K.H.B Office,  
 Sadik Nagar Road, Chitradurga - 577501

Respected Sir,

**Subject: Submission of Environmental Statement in form V for the year 2017-18 for A. Narrain Iron Ore Mine of M/s Vedanta Limited (ML: 2677)**

**Reference: Consent Order No. AWH-300531, Dated 30/06/2016.**

With reference to the above subject we are herewith submitting duly filled Environmental Statement for the year 2017-18 in Form V for A. Narrain Iron Ore Mine of M/s Vedanta Limited (ML: 2677).

Kindly acknowledge the receipt of the same.

Thanking You.

For Vedanta Limited  
**For VEDANTA LIMITED**

  
**Manager - Mining**  
 Authorized Signatory

**Copy to:**

1. Senior Environment Officer, KSPCB "Parisara Bhavana" 4<sup>th</sup> and 5<sup>th</sup> floors, 49, church Street, Bangalore- 560 001.
2. Director, MoEF & CC, Regional Office (Southern Zone) Kendriya Sadan, Bangalore- 560034.
3. The Regional Director (ENV) Ecology and Environment Department, Dr. Saleem Building, Radio Park, Bellary.

**Enclosures:**

Duly filled Environment Statement in Form V.



 **VEDANTA LIMITED** (Formerly known as Sesa Sterlite Ltd. / Sesa Goa Ltd.)  
 sesa goa iron ore: Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa - 403 001, India  
 T +91 0832 2460600 | Website: www.sesagoaironore.com

[FORM – V]

(See rule 14)

## Environmental Statement for the financial year ending the 31st March 2018

## PART A

1	Name and address of the Owner/Occupier of the industry operations or process:	A. Narrain Mines, Vedanta Limited ( Formerly known as Sesa Sterlite Ltd. Megalhalli Office Complex, Bheemasamudra, Tal & Dist: Chitradurga-577 521
2	Industry Category:	Red Category
3	Capacity- Units/year:	6.0 MT/Annum as per EC (However, current production limit is 4.51 MT/Annum as per CEC approval)
4	Production- Units/ day:	6500.412 Tonnes of ore per day (Total Working Days: 352 Days)
5	Year of Establishment:	1952
6	Date of the Last Environmental Statement submitted:	27.09.2017

## PART B

Water and Raw Material Consumption:

1	<b>Water Consumption m<sup>3</sup>/d:</b>			
	Process:	NIL		
	Cooling:	NIL		
	Domestic:	29.88 m <sup>3</sup> /day		
	Others:	219.67 m <sup>3</sup> /day (For Dust suppression and Afforestation)		
	<b>Name of the Product</b>		<b>Process water consumption per unit of product output</b>	
		(1)	(2)	
Iron Ore		NA	NA	
2	<b>Raw Material Consumption:</b>			
	<b>Name of the Raw Material</b>	<b>Name of the Product</b>	<b>Raw material consumption per unit of output</b>	
			<b>During the previous financial Year 2016-17</b>	<b>During the financial Year 2017-18</b>
	NA	NA	NA	NA

## PART C

Pollutant discharged to Environment /unit of output (As specified in consent)

	<b>Pollutants</b>	<b>Quantity of Pollutants discharged (mass/d)</b>	<b>Concentrations of pollutant discharged (mass/volume)</b>	<b>Percentage of variation from prescribed standard with reason</b>
a	Water	No effluent are generated from Mining, however monsoon runoff is channelized in to series of Settling ponds and Checkdams to allow the silt to settle.		
b	Air	Particulate Matter is monitored regularly and is well within the permissible limit. Reports of the same are submitted to MoEF Regional office and Pollution Control Board.		

**PART D**  
**HAZARDOUS WASTE**

[Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016]

Hazardous Waste generated		Total Quantity in KL		
		During the previous financial Year 2016-2017	During the financial Year 2017-2018	
a	From Process	Category 5.1- Used oil	17.85 KL	15.55 KL
		Category 5.2- Oil soaked cotton waste	1.34 MT	0.132 MT
		Category 5.3-Oil Filters	5.12 MT	1.67 MT
b	From Pollution control facilities		NIL	

**PART E**  
**SOLID WASTE**

Solid Waste generated		Total Quantity in Tons	
		During the previous financial Year 2016-2017	During the financial Year 2017-2018
a	From Process (Mining)	2119913 Tonnes	1813876 Tonnes
b	From Pollution control facilities	NA	NA
c	Quantity recycled or reused within unit	NA	NA

*Note : The Solid waste is of Lateritic rock, Clay and Quartzite material which is stacked separately and stabilized by planting appropriate plant species*

**PART F**

**Please specify the characterization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of waste.**

**The Hazardous Waste**

<b>Category 5.1- Used Oil</b>	Used oil is recovered from Heavy Earth Moving Machineries and from processing plants. This oil is blackish liquid contains Carbon, basic in nature with metallic impurities. It is stored in empty oil barrels in an ear marked/ designated place with concrete platform and leachates collection facility and are sold to authorized vendor.
<b>Category 5.2-Oil soaked cotton waste</b>	Contaminated cotton rags with oil
<b>Category 5.3-Oil Filters</b>	Filters from HEMM contaminated with oil

**The Solid waste**

<b>Overburden</b>	It consists of Lateritic rock, Clay and Quartzite material. Overburden dumping is carried out in stepped manner by taking all required environment protective measures like garland drains, geo textiles, constructing rock walls at toe of the dump, settling ponds etc. The finalized areas are afforested by planting native species. The total plantation carried for the year 2017-18 was 24186 nos.
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**PART G**

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.**

Water tankers are engaged for spraying on Haulage roads to control the dust ,Dry Fog dust suppression system is installed in all processing plants and all the transfer points are covered with G.I sheets to control the dust.All the over burden dumps are covered with Geo textile to control dust emissions and soil erosion. Finalized portion of the overburden dumps are taken for plantation.Total plantation carried FY 2017 - 2018 was 24186 Nos.

**PART H**

**Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.**

All the waste dumps are covered with Geo textile, and finalized portions are taken for plantation. Coco filters are installed in the garland drianges to control the silt,Additional measures like retaining wall,Gully checks, Check dams and settling ponds are constructed.


**PART I**

**Any other particulars for improving the quality of the environment.**

Company has been awarded with ISO 14001 certificate for its ENVIRONMENTAL MANAGEMENT SYSTEM.

Date: 20.09.2018

Place: Bheemasamudra

Your Faithfully  
For Vedanta limited  
**For VEDANTA LIMITED**  
  
**Manager - Mining**  
Authorized Signatory