vedanta
transforming elements

sesa goa iron ore

29th September 2020

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 2019-20 for Vedanta Limited Iron Ore Mine (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 2019-20 in Form V for Vedanta Limited Iron Ore Mine (ML: 2677).

Kindly acknowledge the receipt of the same.

Thanking You.
For Vedanta Limited

For VEDANTA LIMITED
29/9/2020
Manager - Mining

29/09/2020

Authorized Signatory

Copy to:

1. Senior Environment Officer, KSPCB "Parisara Bhavana" 4th and 5th floors, 49, church Street, Bangalore- 560 001.
2. Director, MoEF & CC, Regional Office (Southern Zone) Kendriya Sadan, Bangalore- 560034.

Enclosures:
Duly filled Environment Statement along with annexures in Form V.

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[FORM – V]

(See rule 14)

Environmental Statement for the financial year ending the 31st March 2020

PART A

1	Name and adress of the Owner/Occupier of the industry operations or process:	**Vedanta Limited Iron Ore Mines (ML:2677)** **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:	**12912.63 Tonnes of iron ore per day (Total Production- 4545249 Tonnes)**
5	Year of Establishment:	**1952**
6	Date of the Last Environmental Statement submitted:	**29.09.2019**

PART B

Water and Raw Material Consumption:

1 **Water Consumption m^3/d:**

Process:	**NIL**
Cooling:	**NIL**
Domestic:	**41.48 m^3/day**
Others:	**246.46 m^3/day (For Dust supression and Afforestation)**

Name of the Product	**Process water consuption per unit of product output**	
	(1)	**(2)**
Iron Ore	NA	NA

2 **Raw Material Consumption:**

Name of the Raw Material	**Name of the Product**	**Raw material consumption per unit of output**	
		During the previous financial Year 2018-2019	**During the financial Year 2019-2020**
NA	NA	NA	NA

PART C

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

	Pollutants	**Quantity of Pollutants discharged (mass/d)**	**Concentrations of pollutant discharged (mass/volume)**	**Percentage of variation from prescribed standard with reason**
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	
			During the previous financial Year 2018-2019	During the financial Year 2019-2020
a	From Process	Category 5.1- Used oil	25.19 KL	24.630 KL
		Category 5.2- Oil soaked cotton waste	0.217 MT	0.372 MT
		Category 5.3-Oil Filters	2.23 MT	2.67 MT
b	From Pollution control facilities		NIL	NIL

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PART E

SOLID WASTE

	Solid Waste generated	Total Quantity in Tons	
		During the previous financial Year 2018-2019	During the financial Year 2019-2020
a	From Process (Mining)	2647836 Tonnes	3174515 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 charactization (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal pratcice adopted for both these categories of waste.

The Hazardous Waste	
Category 5.1- Used Oil	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.
Category 5.2-Oil soaked cotton waste	Contaminated cotton rags with oil

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 supression 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 2019-2020 was 49282 Nos. (Details attached as **Annexure-1**)
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: 29.09.2020

Your Faithfully
For Vedanta limited

For VEDANTA LIMITED
29/9/2020
Manager - Mining
Authorized Signatory

Place: Bheemasamudra

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PLANTATION FOR THE YEAR 2019-20

Vedanta Limited Iron Ore Mine (ML No. 2677)

S. No.	Local Name	Botanical Name	2019-20
1	Akash maliga	Millngotinia hortensis	100
2	Aralimara	Ficus religiosa	1274
3	Ashoka	Saraca asoca	300
4	Bevu	Azardirachta Indica	275
5	Biduru	Bamboo	100
6	Booruga	Tabebuia rosea	290
7	bouganvilla	Bougainvillea	1820
8	Buggiri(oorvasi mara)	thespesia populnea	1620
9	Casuarina	Casuarina	175
10	Coconut	Cocos nucifera	10
11	Gobbra Gidda	Gilicidia	7390
12	Gulmohar	Delonix regia	849
13	Haladi gulmohar	Peltophorum pterocarpum	570
14	Henna	Lawsonia inermis	1625
15	Honge	Pongamia pinnata	10665
16	Hunise	Tamarindus indica	325
17	Ippe	Madhuca longifolia var.latifolia	1300
18	Jacaranda	Jacaranda mimosifolia	324
19	Kaadu Baadaami	Terminalia catappa	60
20	Kamara	Lantana camara	2800
21	Koranekelar	Tecoma stans	1595
22	Lemon Grass	Cymbopogon	110
23	Māvina hannu	Mangifera indica	420
24	Nelli	Phyllanthus emblica	1075
25	Nerale	Syzygium cumini	1603
26	Panasa/ Halasu	Artocarpus heterophyllus(Jack fruit)	700
27	Rose	Rosa rubiginosa	250
28	Seema hunise	Pithecelobium dulce	750
29	Seema roba	Seema Rouba Glauca	3780
30	Seema thangidi	Cassia Semia	1400
31	Seetha phala	Annona squamosa	112
32	Shrigandha	Santalum album	10
33	Singapore cherry	Mutingia Calabura	5605
	Total		49282