

Ref. No SMCL/ENV/2017/

Date: 14/07/2017

To,
The Member Secretary
Goa State Pollution Control Board
EDC, Patto Plaza
Panjim, Goa -403001

Subject: Compliance of Consent conditions of Sarmanas Barge Loading Jetty Pilgao Village Bicholim Taluka for the month of May 2017.

Ref: Consent to Operate No. 5/2569/15-PCB/CI-2895 dated: 07/06/2017

With reference to the condition in Consent to Operate and Authorization granted to Sarmanas Barge loading jetty, we have enclosed herewith the Air and Water Analysis Report for the Month of **June 2017**.

Thanking you,

Yours faithfully,

For Sesa Mining Corporation Limited,

M. Muthumari
14/07/2017

Muthumari M
Mines Manager
Bicholim Iron Ore Mine



M/s Sesa Environment Laboratory

Vedanta Limited, Mining Division, Codi Mines, P.O. Kirlapale, Goa-403727

Recognised by Ministry of Environment, Forests and Climate change, Govt. of India Vide Notification S.O.137(E). dated 12

* Certified by ISO 9001:2008 and OHSAS 18001:2007

Ambient Air Quality Monitoring Report

Location Name: Sarmanas Jetty

Instruments used: Respirable Dust Sampler 460NL

Calibration date: 24.01.2017

Validity of calibration :23.01.2018

Standard method used for analysis: Particulate Matter Gravimetric method

Monitoring Date	Particulate Matter 24 hourly	Emission Standards
01.06.2017	23	1200 µg/m ³
06.06.2017	25	
08.06.2017	24	
13.06.2017	32	
15.06.2017	32	
20.06.2017	21	
22.06.2017	13	
29.06.2017	26	

Authorised Govt. Analyst



Laboratory Incharge



M/s Sesa Environment Laboratory

Vedanta Limited, Mining Division, Godli Mines, P.O. Kirlapate, Goa-403727

Recognised by Ministry of Environment, Forests and Climate change, Govt. of India Vide Notification S.O.137(E).

dated 12th January 2015, Valid up to 11.01.2020

* Certified by ISO 9001: 2008 and OHSAS 18001:2007

Ambient Air Quality Monitoring Report

Name: Sarmanas Jetty

Instruments used: Fine Particulate Sampler APM550 MFC, Respirable Dust Sampler 460 NL, Gaseous

Calibration date: 24.01.2017

Validity of calibration: 23.01.2018

Standard method used for analysis: PM10 & PM2.5 - Gravimetric method

SO2 - Improved west & Gaeke

NOx - Modified Jacob & Hoccheiser

Monitoring Date	PM _{2.5} in µg/m ³ (24 hourly)	PM ₁₀ in µg/m ³ (24 hourly)	PM _{2.5} in µg/m ³ (24 hourly)	PM ₁₀ in µg/m ³ (24 hourly)
Location Name : House of shantaram morajkar				
01.06.2017	5	9	2	7
06.06.2017	4	7	4	8
08.06.2017	8	11	5	11
13.06.2017	6	10	2	6
15.06.2017	5	12	8	9
20.06.2017	2	6	7	9
22.06.2017	4	7	5	10
29.06.2017	6	10	5	6
Location Name : Pilgao Village				

Authorised Govt. Analyst



Laboratory Incharge

f. Sarmanas

M/s Sesa Environment Laboratory

Vedanta Limited ,Mining Division ,Codli Mines,P.O. Kirlapale ,Goa-403727

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Surface Water Analysis Report for the Month of June 2017

Site Name: Sarmanas Jetty

Date of Receipt of sample: 08.06.2017

Date of Sample collection: 08.06.2017

Analysis completion date : 15.06.2017

Standard method used for analysis: APHA Standard


Test Report No: 307

Parameter	Unit	Desirable Limit	Location
			Surface Runoff
Colour	Hazen	----	<5
PH	----	5.5 to 9.0	6.76
Turbidity	NTU	----	4.8
Dissolved Solids	mg/lit	----	18
Conductivity	µS/cm	----	26
T.S.S	mg/lit	50	3
Chlorides	mg/lit	----	4.8
Total Hardness as CaCO ₃	mg/lit	----	16.3
Calcium as Ca ⁺⁺	mg/lit	----	2.5
Magnesium as Mg ⁺⁺	mg/lit	----	2.5
Sulphate as SO ₄	mg/lit	----	0.6
Phosphate	mg/lit	5	BDL
Nitrate as NO ₃	mg/lit	10	0.2
B.O.D (3days, 30°C)	mg/lit	30	<3
C.O.D	mg/lit	250	<10
Fe	mg/lit	3	0.06
Mn	mg/lit	2	0.02
D.O	mg/lit	----	6
Oil & Grease	mg/lit	10	1.4

BDL- Below Detection Limit



Authorized Govt. Analyst



Laboratory Incharge