

Date: 13/06/2017

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

**Subject: Compliance of Consent conditions of Bicholim Iron Ore Mine, T.C. Nos: 11/1941, 12/1941, 13/1941, 14/1941 & 15/1941, Village Mayem, Lamgao, Bordem, Mulgao & Shirgao of 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 Bicholim Iron Ore Mine, we have enclosed herewith the Air and Water Analysis Report for the Month of **May 2017**.

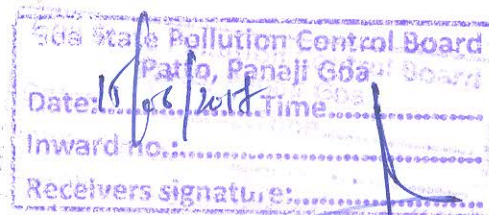
Thanking you,

Yours faithfully,

**For Sesa Mining Corporation Limited,**



**Jagdish Desai**  
Manager-Environment



SESA MINING CORPORATION LIMITED  
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CIN: U13209GA1969PLC000091

## M/s Sesa Environment Laboratory

Vedanta Limited, Mining Division, Codli 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<sup>th</sup> January 2015, Valid up to 11.01.2020

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

### Ambient Air Quality Monitoring Report

Mine Name: Bicholim Mine

Instruments used: Respirable Dust Sampler 460BL

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
	2 TOP Mine Face	1 Top Weigh Bridge	5TOP Ore	
04.05.2017	142	213	124	1200 µg/m <sup>3</sup>
06.05.2017	132	182	153	
09.05.2017	162	104	172	
11.05.2017	177	162	165	
17.05.2017	172	104	143	
19.05.2017	104	118	171	
22.05.2017	118	171	172	
24.05.2017	152	163	136	



Authorised Govt. Analyst



Laboratory Incharge

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

Ambient Air Quality Monitoring Report

Mine Name: Bicholim Mine

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

Calibration date: 24.01.2017

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

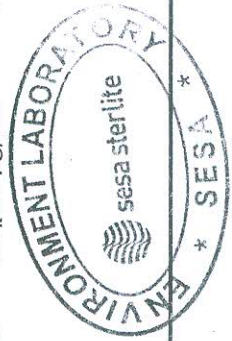
SO2 - Improved west & Gaeke

NOx - Modified Jacob & Hoccheiser

Validity of calibration :23.01.2018

Location Name :Ladfem Village						Location Name : Sarvan village					
Monitoring Date	PM <sub>2.5</sub> in µg/m <sup>3</sup> (24 hourly)	PM <sub>10</sub> in µg/m <sup>3</sup> (24 hourly)	SO <sub>2</sub> in µg/m <sup>3</sup> (24 hourly)	NOx in µg/m <sup>3</sup> (24 hourly)		PM <sub>2.5</sub> in µg/m <sup>3</sup> (24 hourly)	PM <sub>10</sub> in µg/m <sup>3</sup> (24 hourly)	SO <sub>2</sub> in µg/m <sup>3</sup> (24 hourly)	NOx in µg/m <sup>3</sup> (24 hourly)		NOx in µg/m <sup>3</sup> (24 hourly)
04.05.2017	28	47	5	10		28	41	12	18		18
06.05.2017	26	44	6	11		37	52	10	16		16
09.05.2017	34	51	7	11		41	74	6	10		10
11.05.2017	36	55	10	19		36	46	6	8		8
17.05.2017	31	62	6	11		33	59	8	15		15
19.05.2017	34	59	8	16		49	66	8	12		12
22.05.2017	37	42	8	14		44	65	8	15		15
24.05.2017	36	56	7	14		41	73	7	16		16
Location Name : C S Pilgao Village						Location Name :Lamgao Village					
04.05.2017	33	47	6	12		18	24	6	18		18
06.05.2017	30	49	7	14		25	46	8	14		14
09.05.2017	41	56	9	13		22	48	9	16		16
11.05.2017	50	62	8	15		50	63	11	18		18
17.05.2017	48	77	8	18		25	42	10	17		17
19.05.2017	46	69	7	19		46	58	10	18		18
22.05.2017	44	70	6	17		23	41	9	15		15
24.05.2017	37	56	8	14		36	62	8	14		14

NAAQS Limits: PM<sub>2.5</sub>-60µg/m<sup>3</sup> PM<sub>10</sub> 100 µg/m<sup>3</sup> SO<sub>2</sub> 80 µg/m<sup>3</sup> NO<sub>x</sub> 80 µg/m<sup>3</sup> PM<sub>2.5</sub>- 60µg/m<sup>3</sup> PM<sub>10</sub> 100 µg/m<sup>3</sup> SO<sub>2</sub> 80 µg/m<sup>3</sup> NO<sub>x</sub> 80 µg/m<sup>3</sup>



Authorised Govt. Analyst

f. *[Signature]*  
Laboratory Incharge

