

Ref: SMCL/ENV/2016/17

Date: 15/06/2016

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 for the month of May 2016.

Ref: Consent to Operate No. 5/2569/15-PCB/CI-554 dated 07/09/2015.

With reference to the condition in Consent to Operate and Authorization granted to Bicholim Iron Ore Mine, we have enclosed herewith the Air Analysis Report and Water Analysis Report for the Month of **May 2016**.

Thanking you.

Yours faithfully,

For Sesa Mining Corporation Limited,



Jagdish Desai
Manager- Environment

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 12th 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: 08.08.2015

Validity of calibration :07.08.2016

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 Service Road	5TOP Ore storage/Loading	NSP (Dry screening Plant)	
05.05.2016	627	275	407	453	1200 µg/m3
07.05.2016	612	224	411	613	
09.05.2016	610	481	182	610	
11.05.2016	455	424	184	517	
19.05.2016	251	410	422	583	
21.05.2016	612	483	221	527	
23.05.2016	638	263	284	465	
25.05.2016	216	423	418	432	
01.06.2016	429	406	410	562	
03.06.2016	481	495	358	531	



Govt. Analyst



Laboratory Incharge

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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: 08.08.2015

Validity of calibration :07.08.2016

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

SO2 - Improved west & Gaeke

NOx - Modified Jacob & Hoccheiser

Location Name :Ladferm Village					Location Name : Sarvan village			
Monitoring Date	PM _{2.5} in µg/m ³ (24 hourly)	PM ₁₀ in µg/m ³ (24 hourly)	SO ₂ in µg/m ³ (24 hourly)	NOx in µg/m ³ (24 hourly)	PM _{2.5} in µg/m ³ (24 hourly)	PM ₁₀ in µg/m ³ (24 hourly)	SO ₂ in µg/m ³ (24 hourly)	NOx in µg/m ³ (24 hourly)
05.05.2016	10	38	4	6	16	42	4	7
07.05.2016	29	42	4	6	22	30	8	7
09.05.2016	37	50	4	8	4	46	8	6
11.05.2016	36	52	4	5	13	46	3	6
19.05.2016	29	41	4	7	33	42	8	9
21.05.2016	21	58	4	10	44	52	10	15
23.05.2016	10	45	4	8	19	30	10	16
25.05.2016	29	38	3	8	13	17	10	12
01.06.2016	12	21	4	8	33	58	9	10
03.06.2016	21	30	4	6	17	21	8	15
Location Name : C S Pilgao Village					Location Name : Sirsaim Village			
05.05.2016	37	42	6	11	26	93	6	7
07.05.2016	22	44	5	25	33	95	6	6
09.05.2016	13	50	5	14	46	83	5	4
11.05.2016	37	42	4	9	54	99	6	6
19.05.2016	29	36	4	7	35	92	4	5
21.05.2016	44	67	3	9	32	94	5	6
23.05.2016	39	43	3	11	21	83	4	7
25.05.2016	12	25	2	11	30	70	4	7
01.06.2016	50	50	2	8	35	78	5	6
03.06.2016	33	67	2	7	32	81	5	6

NAAQS Limits: PM_{2.5} 60 µg/m³ PM₁₀ 100 µg/m³ SO₂ 80 µg/m³ NO_x 80 µg/m³ PM_{2.5} -60 µg/m³ PM₁₀ 100 µg/m³ SO₂ 80 µg/m³ NO_x 80 µg/m³


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Ambient Air Quality Monitoring Report

Location Name: Lamgao Village

Instruments used: Respirable Dust Sampler 460NL

Calibration date: 08.08.2015

Validity of calibration :07.08.2016

Standard method used for analysis: Particulate Matter Gravimetric method

Monitoring Date	PM _{2.5} in µg/m ³ (24 hourly)	PM ₁₀ in µg/m ³ (24 hourly)
05.05.2016	21	80
07.05.2016	26	39
09.05.2016	25	71
11.05.2016	17	52
19.05.2016	21	92
21.05.2016	19	50
23.05.2016	24	56
25.05.2016	42	83
01.06.2016	17	78
03.06.2016	35	38

NAAQS Limits: PM_{2.5} 60 µg/m³ PM₁₀ 100 µg/m³



Govt. Analyst



Laboratory Incharge

