

NUVOCO VISTAS CORPORATION LIMITED

SONADIH CEMENT PLANT

P.O. RASEDA – 493332, DISTT.- BALODA BAZAR- BHATAPARA, CHHATTISGARH

ENVIRONMENTAL CLEARANCE

For Line 1 Letter No. F. No. J-11011/28/2002-IA-II (I) dated 23/10/2002 & letter dtd 30/12/2002 & 03/06/2004 and for expansion of Cement Plant from 1.50 to 3.50 MPTA (Phase-2) F.No.J-11011/386/2005-IA-II (I) dated 16/03/2006, Amendment letter dtd 05/05/2006, name change letter dtd 20.10.2017

Monitoring Data for the Month of March 2019

**A. Stack Emission :**

S.N.	Stack Attached to	Pollution Control Equipment	CECB STD (Max.)	Particulate Matter* (Mg/NM <sup>3</sup> )
01	Kiln & Raw mill (Line1)	Hybrid Filter	30 mg/NM <sup>3</sup>	-
02	Kiln & Raw mill (Line 2)	Bag House	30 mg/NM <sup>3</sup>	24
03	Clinker cooler (Line1)	ESP	30 mg/NM <sup>3</sup>	-
04	Clinker cooler (Line 2)	Bag house	30 mg/NM <sup>3</sup>	21
05	Coal mill (Line1)	Bag Filter	30 mg/NM <sup>3</sup>	-
06	Coal mill (Line 2)	Bag Filter	30 mg/NM <sup>3</sup>	25
07	Cement mill	Bag Filter	30 mg/NM <sup>3</sup>	22
08	Lime stone crusher	Bag Filter	30 mg/NM <sup>3</sup>	23

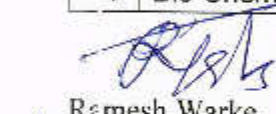
Note: \* Spot test results, CEMS reading for: PM < 30 mg/NM<sup>3</sup> NOx < 800 mg/NM<sup>3</sup> SO2 < 100 mg/NM<sup>3</sup>

**B. Ambient Air Quality :**

Pollutants	CECB STD (Max.)	AAQ ( Monthly Average) (All values in Microgram/M <sup>3</sup> )			
		Ambient Air Quality Monitoring Stations			
		Near Time office	Near LS Crusher	Near Material Gate	Near Scrap yard
PM -10	100	72	65.9	75.3	73.2
PM -2.5	60	33.5	45.2	39.9	34.7
SOx	80	13.8	9.0	23.2	13.6
NOx	80	11.9	22.7	12.8	11.8
CO	2000	<10	BDL	1281	550
Noise level	75/70 dB(A)	Noise level is <70 dB(A) in Day time / <65 dB(A) during Night time			

**C. Discharge Water Quality :** Treated water of Sewage Treatment Plant - Used for Horticulture purpose

S.N.	Pollutants	PCB Standard (Max)	Results obtained
1	P <sup>H</sup>	5.5-9.0	7.3
2	Suspended Solids	100 mg/Ltr	65
3	Chemical Oxygen Demand (COD)	250 mg/Ltr	84
4	Bio-Chemical Oxygen Demand (BOD)	30 mg/Ltr	14

  
Ramesh Warke  
Sr. Vice President  
Nuvoco Vistas Corp. Ltd.

NUVOCO VISTAS CORPORATION LIMITED

SONADIH LIMESTONE MINE

VILLAGE RASEDA ,DISTT.- BALODA BAZAR BHATAPARA, CHHATTISGARH

Environment clearance Letter No. J-11015/387/2007- IA. II(M), dated 6/9/2007 and transfer of EC in the name of M/s Nuvoco Vistas corporation Ltd., vide letter dtd 15/6/2018 for Sonadih Limestone mine (ML area: 444.763 ha for production capacity of limestone 5.5 MTPA .

KEY PARAMETERS									
<b>A) STATIC INFORMATION-</b>									
1	MINE LEASE AREA	:	444.763 HECT.						
2	PRODUCTION	:	5.5 MTPA						
3	LEASE DURATION	:	2036						
4	DATE OF COMMENCEMENT OF WORK	:	MINES OPERATING SINCE 1993. CAPACITY INCREASE TO 5.5 MTPA FROM SEPT 2009						
<b>B) DYNAMIC PARAMETERS - Monitoring data for March 2019</b>									
<b>(i) Ambient Air Quality (Results in microgram/M<sup>3</sup>)</b>									
Ambient Air Quality Monitoring Station									
	Parameters	Near River Pump House		Near Limestone Dump Hopper		Near Mine office		Towards Sonadih village	
		I	II	I	II	I	II	I	II
1	SPM	241	229	270	267	257	264	244	262
2	RSPM(PM10)	63	51	79	86	52	71	65	58
3	NOx	10.51	11.36	11.63	14.67	13.38	11.53	11.22	11.66
<b>(ii) Vibration (PPV) : 1.41 –4.09 mm/sec (at the distance of 300 mtr from blast site)</b>									
<b>(iii) Quality of Discharge Water : Zero water discharge from Mines</b>									
1	Total Dissolved Solid (TDS)	:	-						
2	Dissolved Oxygen(DO)	:	-						
3	p <sup>H</sup>	:	-						
4	Total Suspended solids (TSS)	:	-						
<b>(iv) Greenbelt / Plantation</b>									
1	Nos of Trees planted till date	:	More than 5.5 Lakhs around Plant, Colony & Mines						
2	Calendar year wise (Nos)	:	2015	2016	2017	2018			
			15000	18000	10000	Plantation 5000			



Ramesh Warke  
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Nuvoco Vistas Corp. Ltd.

(Incorporated in India)

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