

Monthly Plant Environment Monitoring Report

Dated: 10th Aug, 2021

**CHITTOR CEMENT PLANT
Of**

Nuvoco Vistas Corp. Ltd.

(Villages- Bhawalia, Mangrol and Arniya Joshi, Tehsil- Nimbahera, District. Chittorgarh, Rajasthan)

Environmental Clearance letter no.:-

1. Letter No.: J-11011/1097/2007-IA-II (I) dated 23.12.2008 for Integrated Cement Plant (Cement 2.6 MTPA; Clinker 1.6 MTPA), Captive Power Plant (25 MW), DG set (5 MW) and Arniya Joshi Limestone Mining (2.6 MTPA, 1476.425 ha.)
2. J-11011/113/2011-IA-II (I) dated 19.06.2012 for Proposed Expansion of Cement Plant (from 1.6 MTPA to 2.6 MTPA).
3. J-11011/113/2011-IA-II (I) dated: - 16th November'2017, for proposed enhancement in Clinker production (from 1.60 to 1.94 MTPA) by process optimization.

KEY PARAMETERS					
A. Static Information					
1.	Plant Area	:	182.7 Hact.		
2.	Production capacity	:	Clinker- 1.94 MTPA Cement- 2.6 MTPA		
3.	Date of Commencement of the work	:	30/9/2013.		
B. Dynamic Parameters- Monitoring data for the month of July, 2021					
Pollutants in ($\mu\text{g}/\text{m}^3$)	RSPCB (Max.)	AAQM (Monthly Average) data			
		Location of Ambient Air Quality Monitoring Stations			
		Crusher Gate	Mangrol Gate	Main Gate-1	Township
Particulate Matter (PM-2.5)	60	30.79	29.79	28.18	27.60
Particulate Matter (PM-10)	100	57.78	54.60	56.42	51.55
NO ₂	80	20.45	18.92	19.67	17.68
SO ₂	80	8.81	10.55	8.83	7.35
O ₃	180	12.75	11.28	13.44	9.96
Pb	1	0.09	0.10	0.11	0.08
CO	4	0.28	0.36	0.43	0.20
NH ₃	400	7.43	9.01	8.56	6.95
C ₆ H ₆	5	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)
BaP	1	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)
As	6	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)

Nuvoco Vistas Corp. Ltd.

Chittor Cement Plant, Village Bhawaliya, Tehsil. Nimbahera, Dist. - Chittorgarh, Rajasthan - 312620 (India)

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Ni	20	3.02	2.93	3.31	2.05	
Hg	--	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	
C. Green belt development /Plantation data.						
FY Wise Plantation data from FY 2009-10 to FY 2020- 21	69930 Sampling have are planted from 2009-10 to 2020-21 under Plant, Colony & Nearby area under CSR activity by Nuvovo Vistas Corp. Limited.					
	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
	4300	50	8392	4970	9913	5444
	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
	7250	9600	8112	3946	4043	3910
Month Wise data of FY 2021-22	April'21	May'21	June'21	July'21		
	25	5	678	3207		

For Nuvoco Vistas Corp. Ltd.



Sanjay Kumar Tyagi
(Sr. Vice President-CCP)



Monthly Mines Environment Monitoring Report

Dated: 10th Aug, 2021

**ARNIYA JOSHI LIMESTONE MINE, VILLAGE ARNIYA JOSHI, MOTA, SAHBAD
And
SRK LIMESTONE MINE, VILLAGE-SITARAM JI KA KHERA
of
NUVOCO VISTAS CORPORATION LTD.
TEHSIL- NIMBAHERA, DISTRICT- CHITTORGARH (RAJ.)**

ENVIRONMENT CLEARANCE LETTER NO.:-


1. Arniya Joshi Limestone mine- J-11011/1097/2007-IA (I) dated 23.12.2008 for integrated Cement Plant (Cement 1.6 MTPA, Clinker 1.6 MTPA), Captive Power Plant (25 MW), DG set (5 MW) and Arniya Joshi Limestone mining (2.6 MTPA, 1476.25 ha.).
2. SRK Limestone mine- J-11015/268/2011-IA-II (M) dated 17.09.2014 for Limestone mine with production capacity of 2.6 million TPA (ROM) (602 ha.).

KEY PARAMETERS		
A) Static Information		
1	Mine Lease Area	: Arniya Joshi Limestone Mine- 1476.25 Ha. SRK Mine 602 Ha.
2	Production capacity	: Arniya Joshi Limestone Mine- 2.6 MTPA. SRK Limestone Mine 2.6 MTPA.
3	Lease duration	Arniya Joshi Limestone mine-2041. SRK Limestone Mine- 2047.
4	Date of Commencement of the work	Arniya Joshi Limestone:- mine- Mining of lime stone at the site commenced after obtaining consent to operate for major mineral mine at near village- Arniya Joshi, Tehsil- Nimbahera, District- Chittorgarh (Raj.), (ML no.-10/06) from RSPCB vide there letter no. F (Mines)/Chittorgarh (Nimbahera)/3/2009-2010/6673-6678, Dated- 26/10/2012. Sita Ram Ji Ka Khera Limestone mine:- Mining of lime stone at the site commenced after obtaining consent to operate for major mineral mine at near village- Sita Ram Ji ka Khera, Tehsil- Nimbahera, District- Chittorgarh (Raj.) (ML. No. 9/92) From RSPCB vide their letter no. F (Mines)/Chittorgarh (Nimbahera)/1857(1)/2015-16/156-160. Dated- 15/4/2015.

B. Dynamic Parameters- Monitoring data of AJ Mine for the month of July'2021.

Pollutants in ($\mu\text{g}/\text{m}^3$)	RSPCB (Max.)	AAQ (Monthly Average) data			
		Location of Ambient Air Quality Monitoring Stations			
		AJ Mines Office	Sarvodiya Office	AJ Mine South Boundary	Village- Arniya Joshi
Particulate Matter (PM _{2.5})	60	37.42	36.18	34.40	32.23
Particulate Matter (PM ₁₀)	100	62.37	59.10	57.22	54.90
NO ₂	80	24.86	22.82	23.05	21.75
SO ₂	80	13.25	12.87	10.11	12.11
O ₃	180	22.02	19.47	15.56	20.64
Pb	1	0.12	0.12	0.07	0.14
CO	4	0.69	0.63	0.64	0.58
NH ₃	400	10.39	9.25	7.84	8.37
C ₆ H ₆	5	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)
BaP	1	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)
As	6	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)
Ni	20	4.62	3.74	2.16	1.96
Mercury as Hg	...	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)

For Nuvoco Vistas Corp. Ltd.


Sanjay Kumar Tyagi
(Sr. Vice President-CCP)

C. Dynamic Parameters- Monitoring data of SRK mine for the month of July'2021.


Pollutants in ($\mu\text{g}/\text{m}^3$)	RSPCB (Max.)	AAQ (Monthly Average) data			
		Location of Ambient Air Quality Monitoring Stations			
		Crusher (LS)	SRK Mine (petrol pump)	Village - Sitaram ji ka khera	Village - Tila khera
Particulate Matter (PM _{2.5})	60	38.85	37.78	31.29	30.19
Particulate Matter (PM ₁₀)	100	67.18	63.31	55.34	54.98
NO ₂	80	22.36	24.62	21.24	18.68
SO ₂	80	12.77	13.83	12.02	9.72
O ₃	180	22.65	21.67	14.21	13.08
Pb	1	0.14	0.13	0.07	0.05
CO	4	0.81	0.74	0.61	0.64
NH ₃	400	14.27	8.91	9.84	12.92
C ₆ H ₆	5	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)
BaP	1	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)
As	6	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)
Ni	20	3.25	4.73	1.23	1.71
Mercury as Hg	...	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)	BDL (DL 0.5)

D. Vibration (PPV-SRK Mine): 2.10 mm/sec. @ 33.40 Hz.

E. Green belt development /Plantation data.

No. of Plants are planted	61525 Plants are planted from 2013-14 to 2020-21 at AJ Mine & SRK Mine by Nuvovo Vistas Corp. Limited.			
Calendar year wise (Nos).	2013-14	2014-15	2015-16	2016-17
	3360	3742	760	16568
	2017-18	2018-19		2019-20
	12875	8454		8341
	2020-21	2021-22 (Upto July'21)		
	8065	6977		

For Nuvoco Vistas Corp. Ltd.


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