

Monthly Plant Environment monitoring report

Dated: 7th Jan, 2020

CHITTOR CEMENT PLANT
Of

M/s Nuvoco Vistas Corp. Ltd.

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

Environmental Clearance letter no.:

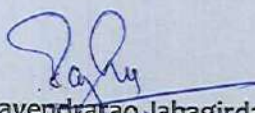
1. Letter No.: J-11011/1097/2007-IA-II (I) dated 23.12.2008 for Integrated Cement Plant (Cement 2.6 MTPA; Clinker 1.6 MTPA), Captive Power Plant (25 MW), DG set (5 MW) and Arniya Joshi Limestone Mining (2.6 MTPA, 1476.425 ha.)
2. J-11011/113/2011-IA-II (I) dated 19.06.2012 for Proposed Expansion of Cement 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 Dec.'19					
Pollutants in ($\mu\text{g}/\text{m}^3$)	RSPCB (Max.)	AAQ (Monthly Average) data			
		Location of Ambient Air Quality Monitoring Stations			
		Crusher Gate	Mangrol Gate	Main Gate-1	Township
Particulate Matter (PM _{2.5})	60	34.05	33.40	37.56	31.61
Particulate Matter (PM ₁₀)	100	54.75	51.28	58.64	48.63
NO ₂	80	25.50	23.67	24.66	20.78
SO ₂	80	11.02	11.61	10.38	8.96
O ₃	180	17.79	18.10	16.99	11.96
Pb	1	0.10	0.10	0.10	0.09

CO	4	BDL	BDL	BDL	BDL
NH ₃	400	8.37	8.88	9.03	7.95
C ₆ H ₆	5	ND	ND	ND	ND
BaP	1	ND	ND	ND	ND
As	6	BDL	BDL	BDL	BDL
Ni	20	3.38	3.09	4.06	2.90
Hg	--	ND	ND	ND	ND

C. Green belt development /Plantation data.

No. Of Plants are planted till Mar.'19	61977 sampling have are planted from 2011 to till March'19 at Plant, Colony & Nearby area under CSR activity by M/s Nuvovo Vistas Corp. Limited.					
Calendar year wise (Nos).	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
	8092	4970	15107	4750	8600	5154
Month-wise Plantation of NVCL Chittor Cement Plant in year- 2019.	2017-18	2018-19				
	8112	3946				
	April'19	May'19	June'19	July'19	Aug'19	Sept'19
	00	00	100	300	500	10
	Oct'19	Nov.'19	Dec.'19			
	5	600	1106			


Raghavendra Rao Jahagirdar
 (Sr. Vice President-CCP)

Monthly Mines Environment monitoring report

Dated: 7th Jan, 2020

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

ENVIRONMENT CLEARANCE LETTER NO.:

- 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.).
- 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 Mine 2.6 MTPA.
3	Lease duration : Arniya Joshi Limestone mine-2041. SRK 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 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 for the month of Dec.'19

Pollutants in (µg/m ³)	RSPCB (Max.)	AAQ (Monthly Average) data	
		Location of Ambient Air Quality Monitoring Stations	
		AAQM data AJ mine	AAQM data SRK mine
Particulate Matter (PM _{2.5})	60	30.00	28.68
Particulate Matter (PM ₁₀)	100	66.10	59.41
NO ₂	80	21.00	18.19
SO ₂	80	9.10	8.67
O ₃	180	22.03	15.22
Pb	1	0.08	0.06
CO	4	BDL	BDL
NH ₃	400	12.80	15.47
C ₆ H ₆	5	BDL	BDL
BaP	1	BDL	BDL
As	6	BDL	BDL
Ni	20	2.15	1.50
Mercury as Hg		BDL	BDL

C. Vibration (PPV): 2.48 mm/sec. @ 44.00 Hz.

D. Green belt development /Plantation data.

No. Of Plants are planted	48738 Plants are planted from 2013 to till Dec.'18 at AJ Mine & SRK Mine by M/s Nuvovo Vistas Corp. Limited.			
Calendar year wise (Nos).	2013-14	2014-15	2015-16	2016-17
	2016	2245	7183	14906
	2017-18	2018-19		
	11624	10764		

Raghu
Raghavendrao Jahagirdar
 (Sr. Vice President-CCP)