

ARASMETA CEMENT PLANT OF M/S NUVOCO VISTAS CORP.LTD.  
VILLAGE ARASMETA, PO- GOPALNAGAR, DISTT.  
JANJGIR - CHAMPA, CHHATTISGARH

## CONSENT TO OPERATE

**PLANT:** - AIR Consent Letter No. 3454/TS/CECB/2018 dated 23/07/2018 for Cement 22.4 Lacs MT/Annum  
Water Consent Letter No. 3452//TS/CECB/2018 dated 23/07/2018 for Cement 22.4 Lacs MT/Annum  
**D.G Set:** - AIR Consent Letter No. 3386/TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW.  
Water Consent Letter No. 3384/TS/CECB/2016 date 09/09/2016 for 3 x 6 = 18 MW

### Monitoring Data For the Month of Nov` 2018

#### A. Stack Emission – Consent Condition for Particulate matter -Max. 30 mg/Nm<sup>3</sup>

S.N.	Stack Attached to	PCEs	Particulate Matter (Mg/Nm <sup>3</sup> )
1	KILN & RAW MILL -1	Bag Filter	22.0
2	PC & RAW MILL -2	Bag Filter	21.8
3	COOLER	ESP	20.7
4	COAL MILL -1	Bag Filter	NR
5	COAL MILL -2	Bag Filter	23.1
6	CEMENT MILL -1	Bag Filter -1	23.7
7	CEMENT MILL -1	Bag Filter -2	22.7
8	CEMENT MILL -2	ESP	17.6
9	CEMENT MILL -2	Bag Filter	24.1
10	DG-3	-	NR
11	DG-4	-	NR
12	DG-5	-	NR

SD-Shut down, NR- Not running

#### B. Ambient Air Quality --

Pollutants	Ambient Air Quality ( Monthly Average)				
	LOCATION				
	NAAQ STD.	Near Wagon Tippler - East	Near Main Security Gate - West	Near Rail way TXR Office -North	Near Old Truck Tippler (Near Petrol Pump) - South
PM10 (µg/m3)	100	19.2	23.3	22.1	18.4
PM2.5 (µg/m3)	60	16.6	15.7	19.9	16.3
Sulphur Dioxide SO2 (µg/m3)	80	15.4	15.2	14.6	14.9
Nitrogen Dioxide NO2 (µg/m3)	80	18.5	17.4	17.7	17.7
Carbon Monoxide CO (mg/m3)	4	0.25	0.27	0.23	0.29

#### C- Discharge Water Quality:

Cement plant maintained Zero Discharge, for cooling water close circuit arrangement, Plant domestic water discharge through Sock pit. Sewage Treatment Plant installed in colony for treatment of Domestic wastewater, Treated water used for Horticulture purpose.

#### Quality of Treated water of STP:

S.N.	Pollutants	Monthly average Results	CECB Standard (Max)
1	pH	7.2	5.5 - 9.0
2	Suspended Solids	74	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	62	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	20	30 mg/Ltr
5	Oil& Grease	<1	10 mg/Ltr.

For Nuvoco Vistas Corp.Ltd (Formerly Lafarge India Ltd)  
(Arasmeta Cement Plant)

(Anil Sharma)

Asst. Vice President -ACP

### Nuvoco Vistas Corp. Ltd.

(formerly Lafarge India Limited)

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

Website: [www.nuvoco.in](http://www.nuvoco.in) | CIN. U26940MH1999PLC118229

Registered Office: Equinox Business Park, Tower.3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai 400070



**ARASMETA LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD  
VILLAGE ARASMETA, DISTT. JANJGIR - CHAMPA, CHHATTISGARH**

**Environment clearance**

Letter No. J11015/64/2003- IA, II (M) GOI, and MoEF dated 18/7/2005 for production of 2.7 MTPA for Arasmeta Limestone mine.

**CONSENT TO OPERATE**

Air Consent Letter NO. 3357/TS/CECB/2017 Date 21/09/2017 for 2.7 MTPA

Water Consent Letter NO. 3355/TS/CECB/2017 Date 21/09/2017 for 2.7 MTPA

**Monitoring Data for the Month Nov` 2018**

**KEY PARAMETERS**

**A ) STATIC INFORMATION**

1	MINE LEASE AREA	:	499.987 Hect.
2	PRODUCTION	:	2.7 MTPA
3	LEASE DURATION	:	31/03/ 2030
4	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 1982

**B) DYNAMIC PARAMETERS**

**(i) Ambient Air Quality**

Parameters	NAAQ STD	Ambient Air Quality Monitoring Station							
		Pit Boundary (East)		Mines office (West)		Colony (North)		Arasmeta village (South)	
		I	II	I	II	I	II	I	II
PM10	100µg/m3	57.2	55.7	51.8	52.8	43.1	39.2	48.5	54.4
PM2. 5	60 µg/m3	25.7	26.1	33.6	35.7	20.8	18.8	31.7	33.9
Sulphur Dioxide SO2	80(µg/m3	15.1	15.3	15.9	14.5	15.6	14.8	14.4	15.3
Nitrogen Dioxide NO2	80(µg/m3	18.5	17.6	19.6	18.6	18.4	17.2	18.8	18
Carbon Monoxide CO	4 mg/m3	0.28	0.29	0.25	0.28	0.26	0.26	0.24	0.25

BDL - Below Detection Limit-

**(ii) Vibration (PPV)** 3.28- mm / Sec at the distance of 300 meter from blast site.

**(iii) Quality of Discharge Water:-** Zero Discharge Water From Mines

1	Total Dissolved Solid (TDS)	:	-	-
2	Dissolved Oxygen(DO)	:	-	-
3	PH	:	-	-
4	Total Suspended solids (TSS)	:	-	-

**(iv) Greenbelt/Plantation**

1	Nos of Trees planted till date -		1028807 Around Plants, Colony & Included Arasmeta Mines & Harihar project (up to Oct 2018)	
2	Calendar year wise (progressive)		2017	2018
			8056	7098 (Plant & Mines)

**For Nuvoco Vistas Corp.Ltd (Formerly Lafarge India Ltd.)**

(Arasmeta Cement Plant)

(Anil Sharma)

Asst. Vice President -ACP

**Nuvoco Vistas Corp. Ltd.**

(formerly Lafarge India Limited)

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

Website: [www.nuvoco.in](http://www.nuvoco.in) | CIN. U26940MH1999PLC118229

Registered Office: Equinox Business Park, Tower.3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai 400070

**KIRARI LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD  
VILLAGE KIRARI - CHORBHATTI  
DISTT. JANJGIR - CHAMPA, CHHATTISGARH**

**Environment clearance**

Environment clearance. Letter No. J11015/23/2002- IA, II (M) GOI, and MoEF dated 9/12/2003 for production of 0.36 MTPA for Kirari Limestone mine.

**CONSENT TO OPERATE**

Air Consent Letter NO. 2290/RO/TS/CECB/2018 Date 04/08/2018 for 0.36 MTPA  
Water Consent Letter NO. 2289/RO/TS/CECB/2018 Date 04/08/2018 for 0.36 MTPA

**Monitoring Data For the Month of Nov` 2018**

KEY PARAMETERS										
<b>A ) STATIC INFORMATION</b>										
1	MINE LEASE AREA	:	167.048 Hect.							
2	PRODUCTION	:	0.36 MTPA							
3	LEASE DURATION	:	25/08/2050							
4.	DATE OF COMMENCEMENT OF WORK	:	Mines operated since 2006							
<b>B) DYNAMIC PARAMETERS</b>										
<b>(i) Ambient Air Quality</b>										
Ambient Air Quality Monitoring Station										
Parameters	NAAQ STD	Chorbatti (East)		Banhil (West)		Mines office (North)		Kirari (South)		
		I	II	I	II	I	II	I	II	
PM10	100µg/m <sup>3</sup>	43.4	39.2	53.8	46.5	55.4	48.4	48.2	44.3	
PM2.5	60 µg/m <sup>3</sup>	18.7	25.3	34.5	32.4	29.5	33.2	24.6	29.6	
Sulphur Dioxide SO <sub>2</sub>	80(µg/m <sup>3</sup>	14.4	14.8	13.9	14.5	14.3	15.7	14.2	14.2	
Nitrogen Dioxide NO <sub>2</sub>	80(µg/m <sup>3</sup>	17.5	18.0	17.3	17.5	17.5	17.6	16.6	17.3	
Carbon Monoxide CO	4 mg/m <sup>3</sup>	0.23	0.24	0.26	0.29	0.28	0.27	0.24	0.26	
<b>(ii) Vibration (PPV)</b> 1.00- mm/ Sec at the distance of 200 meter from blast site.										
<b>(iii) Quality of Discharge Water:-</b> Zero Discharge Water From Mines										
1	Total Dissolved Solid (TDS)	:	-							
2	Dissolved Oxygen(DO)	:	-							
3	PH	:	-							
4	Total Suspended solids (TSS)	:	-							
<b>(iv) Greenbelt/Plantation</b>										
1	Nos of Trees planted till date -	:	45360 nos. Plantation at Kirari Mines (up to 2018)							
2	Calendar year wise (progressive)	:	2017				2018			
		:	6865 Nos.				3700 Nos.			

**For Nuvoco Vistas Corp.Ltd (Formerly Lafarge India Ltd.)**

Arasmeta Cement Plant

(Anil Sharma)

Asst. Vice President -ACP

**Nuvoco Vistas Corp. Ltd.**

(formerly Lafarge India Limited)

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

Website: [www.nuvoco.in](http://www.nuvoco.in) | CIN. U26940MH1999PLC118229

Registered Office: Equinox Business Park, Tower.3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai 400070

**CHILHATI LIMESTONE MINES OF M/S NUVOCO VISTAS CORP.LTD  
VILLAGE CHILHATI  
DISTT. BILASPUR, CHHATTISGARH**

**Environment clearance**

Environment clearance. Letter No. J-11015/210/2010-IA.II (M) GOI and MoEF dated 18/9/2014 for production of 4.0 MTPA for Chilhati Limestone mine.

**CONSENT TO OPERATE**

Air Consent Letter NO. 1009/TS/CECB/2018 Date 18/04/2018 for 1.38 MTPA  
Water Consent Letter NO. 1007/TS/CECB/2018 Date 18/04/2018 for 1.38 MTPA

**Monitoring Data For the Month of Oct` 2018**

KEY PARAMETERS													
<b>A ) STATIC INFORMATION</b>													
1	MINE LEASE AREA	:	1085.365 Hect.										
2	PRODUCTION	:	1.38 MTPA										
3	LEASE DURATION	:	2065										
4.	DATE OF COMMENCEMENT OF WORK		Mines operated since 19 <sup>th</sup> April 2017										
<b>B) DYNAMIC PARAMETERS</b>													
<b>(i) Ambient Air Quality</b>													
Ambient Air Quality Monitoring Station													
Parameters ( $\mu\text{g}/\text{m}^3$ )	Gonadih		Chilhathi		Jaitpuri-Semradih		Kokri-Gobari		Sonadih		Belha		
	I	II	I	II	I	II	I	II	I	II	I	II	
PM10	52.3	50.5	47.1	49.7	35.2	32.8	44.2	47.8	41.4	44.3	43.3	39.2	
PM2.5	22.4	24.5	31.6	32.3	18.9	14.8	26.7	28.8	20.6	20.1	27.3	25.0	
Sulphur Dioxide SO <sub>2</sub>	15.6	14.9	15.3	14.3	14.2	13.5	13.2	13.8	14.6	13.2	14.4	14.2	
Nitrogen Dioxide NO <sub>2</sub>	19.5	17.2	18.1	17.0	19.3	18.1	17.2	16.9	18.6	17.8	19.0	17.4	
Carbon Monoxide CO	0.29	0.28	0.25	0.30	0.31	0.26	0.26	0.27	0.32	0.29	0.28	0.31	
<b>NAAQ STD- PM10-100 <math>\mu\text{g}/\text{m}^3</math>, PM2.5-60 <math>\mu\text{g}/\text{m}^3</math> SO<sub>2</sub> &amp; NO<sub>2</sub>-80 <math>\mu\text{g}/\text{m}^3</math> and CO-4 mg/m<sup>3</sup></b>													
<b>(ii)</b>	<b>Vibration (PPV)</b> Nil / Sec at the distance of 200 meter from blast site.												
<b>(iii)</b>	<b>Quality of Discharge Water:- Zero Discharge Water From Mines</b>												
1	Total Dissolved Solid (TDS)		:	-									
2	Dissolved Oxygen(DO)		:	-									
3	PH		:	-									
4	Total Suspended solids (TSS)		:	-									
<b>(iv)</b>	<b>Greenbelt/Plantation</b>												
1	Nos. of Trees planted till date -		:	10785 nos. Plantation at Chilhati Mines (up to 2017)									
2	Calendar year wise (progressive)		:	2017					2018				
				3800					6985				

**For Nuvoco Vistas Corp.Ltd (Formerly Lafarge India Ltd.)**  
Arasmeta Cement Plant,

(Anil Sharma)

Asst. Vice President -ACP

**Nuvoco Vistas Corp. Ltd.**

(formerly Lafarge India Limited)

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)

Website: [www.nuvoco.in](http://www.nuvoco.in) | CIN. U26940MH1999PLC118229

Registered Office: Equinox Business Park, Tower.3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai 400070