

**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 & Water Consent Letter No. 1928/TS/CECB/2019 date 21/06/2019 for 3 x 6 = 18 MW.

Monitoring Data For the Month of Dec`2019

A. Stack Emission – Consent Condition for Particulate matter -Max. 30 mg/Nm³

S.N.	Stack Attached to	PCEs	Particulate Matter (Mg/Nm ³)
1	KILN & RAW MILL -1	Bag Filter	21.6
2	PC & RAW MILL -2	Bag Filter	26.3
3	COOLER	ESP	23.9
4	COAL MILL -1	Bag Filter	22.1
5	COAL MILL -2	Bag Filter	22.9
6	CEMENT MILL -1	Bag Filter -1	21.1
7	CEMENT MILL -1	Bag Filter -2	23.4
8	CEMENT MILL -2	ESP	23.2
9	CEMENT MILL -2	Bag Filter	22.9
10	DG-3	-	NR
11	DG-4	-	NR
12	DG-5	-	NR

SD-Shut down, NR- Not running ND-Not done

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	64.1	52.8	57.5	62.9
PM2. 5 (µg/m3)	60	37.4	31.9	32.8	34.5
Sulphur Dioxide SO2 (µg/m3)	80	9.9	10.2	9.3	10.5
Nitrogen Dioxide NO2 (µg/m3)	80	18.1	16.8	18.2	17.4
Carbon Monoxide CO (mg/m3)	4	0.25	0.21	0.26	0.23

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	58	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	72	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	26	30 mg/Ltr
5	Oil & Grease	<1	10 mg/Ltr

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

(Signature)
11/01
Tarun Kumar
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

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

Website: 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 Dec`2019

KEY PARAMETERS														
A) STATIC INFORMATION														
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 th April 2017											
B) DYNAMIC PARAMETERS														
(i)	Ambient Air Quality													
		Ambient Air Quality Monitoring Station												
	Parameters (µg/m3)	Gonadih		Chilhati		Jaitpuri-Semradih		Kokri-Gobari		Sonadih		Belha		
		I	II	I	II	I	II	I	II	I	II	I	II	
	PM10	53.4	52.3	52.3	48.9	49.7	47.6	48.3	45.2	50.4	46.2	47.7	45.9	
	PM2.5	32.8	31.2	31.2	28.6	28.4	26.8	26.9	24.3	31.1	26.7	27.5	25.3	
	Sulphur Dioxide SO2	9.6	8.8	8.8	9.2	9.8	8.5	8.3	9.4	8.9	9.6	9.5	8.7	
	Nitrogen Dioxide NO2	12.5	12.9	12.9	12.5	12.6	13.2	13.7	12.7	12.8	13.3	13.3	12.4	
	Carbon Monoxide CO	0.22	0.21	0.21	0.19	0.2	0.21	0.19	0.19	0.21	0.18	0.22	0.2	
	NAAQ STD- PM10-100 µg/m3, PM2.5-60 µg/m3 SO2 & NO2-80 µg/m3 and CO-4 mg/m3													
(ii)	Vibration (PPV)	Nil / Sec at the distance of 200 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 -		13163 nos. Plantation at Chilhati Mines (upto Nov19)											
2	Calendar year wise (progressive)		2018					2019						
			6985					2378						

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)

Sundey *Tarell* *11/01*
(Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

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

Website: 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 Dec` 2019

KEY PARAMETERS										
A) STATIC INFORMATION										
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) DYNAMIC PARAMETERS										
(i) Ambient Air Quality										
		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/m3	48.6	50.1	52.1	49.6	56.9	52.7	54.8	51.3	
PM2.5	60 µg/m3	22.4	26.3	28.6	25.4	34.5	30.4	32.1	28.6	
Sulphur Dioxide SO2	80(µg/m3	11.6	11.4	10.9	10.7	10.2	11.3	11.6	10.2	
Nitrogen Dioxide NO2	80(µg/m3	12.3	13.4	12.7	11.3	12.5	13.2	13.6	11.7	
Carbon Monoxide CO	4 mg/m3	0.22	0.21	0.19	0.22	0.21	0.22	0.2	0.23	
(ii) Vibration (PPV) 2.31 - at the distance of 200 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 -		47360 nos. Plantation at Kirari Mines (Upto Nov 2019)							
2	Calendar year wise (progressive)		2018				2019			
			3700 Nos.				2000 Nos.			

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)


(Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

Arasmeta Cement Plant, P.O. Gopalnagar, Dist. Janjgir – Champa, Chhattisgarh – 495663 (India)
Website: www.nuvoco.in | CIN. U26940MH1999PLC118229

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

NUVOCO

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 Dec` 2019

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	57.1	55.6	53.4	51.7	60.1	55.8	52.5	49.9
PM2. 5	60 µg/m3	33.2	31.5	28.9	28.4	34.5	34.6	29.5	25.5
Sulphur Dioxide SO2	80(µg/m3	9.6	8.1	10.2	9.3	9.1	8.4	8.4	9.1
Nitrogen Dioxide NO2	80(µg/m3	16.7	17.2	17.4	16.8	16.2	15.4	15.1	15.6
Carbon Monoxide CO	4 mg/m3	0.23	0.21	0.21	0.24	0.2	0.22	0.18	0.2

BDL - Below Detection Limit-

(ii) **Vibration (PPV)** 2.02 / 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 -	1039857 Around Plant, Colony & Included Arasmeta Mines & Harihar project (up to Nov 2019)		
2	Calendar year wise (progressive)	2018		2019
		7098 (Plant & Mines)		5000

For Nuvoco Vistas Corp.Ltd
(Arasmeta Cement Plant)


(Tarun Kumar)
Asst. Vice President -ACP

Nuvoco Vistas Corp. Ltd.

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

Website: www.nuvoco.in | CIN. U26940MH1999PLC118229

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