

**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 June 20**

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 (µg/m <sup>3</sup> )	Gonadih		Chilhati		Jaitpuri-Semradih		Kokri-Gobari		Sonadih		Belha		
	I	II	I	II	I	II	I	II	I	II	I	II	
PM10	45.4	48.2	50.1	46.9	48.6	49.5	43.4	45.2	46.8	48.7	45.1	47.1	
PM2.5	22.7	27.3	29.4	25.4	27.3	28.1	20.8	24.8	26.9	28.3	21.4	26.1	
Sulphur Dioxide SO <sub>2</sub>	6.1	7	7.5	6.4	6.8	7.2	7.1	6.8	6.4	6.4	7.2	6.9	
Nitrogen Dioxide NO <sub>2</sub>	10.6	11.3	12.8	12.1	11.4	10.3	10.6	11.9	12.7	11.5	11.1	10.9	
Carbon Monoxide CO	0.18	0.2	0.2	0.16	0.17	0.18	0.21	0.21	0.22	0.2	0.18	0.19	
<b>NAAQ STD- PM10-100 µg/m<sup>3</sup>, PM2.5-60 µg/m<sup>3</sup> SO<sub>2</sub> &amp; NO<sub>2</sub>-80 µg/m<sup>3</sup> and CO-4 mg/m<sup>3</sup></b>													
(ii)	<b>Vibration (PPV)</b>	Nil / Sec at the distance of 200 meter from blast site.											
(iii)	<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)	:	-										
(iv)	<b>Greenbelt/Plantation</b>												
1	Nos. of Trees planted till date -	13163 nos. Plantation at Chilhati Mines											
2	Calendar year wise (progressive)	2018					2019						
		6985					2378						

**For Nuvoco Vistas Corp.Ltd**  
(Arasmeta Cement Plant)

*(Signature)*  
(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](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 June` 2020**

**KEY PARAMETERS**

**A ) STATIC INFORMATION**

1	MINE LEASE AREA	:	167.048 Hect.
2	PRODUCTION	:	0.36 MTPA
3	LEASE DURATTION	:	25/08/2050
4.	DATE OF COMMENCEMENT OF WORK		Mines operated since 2006

**B) DYNAMIC PARAMETERS**

**(i) Ambient Air Quality**

Parameters	NAAQ STD	Ambient Air Quality Monitoring Station							
		Mines office (North)		Kirari (South)		Banhil (West)		Chorbatti (East))	
		I	II	I	II	I	II	I	II
PM10	100µg/m3	49.5	45.3	45.4	44.2	48.3	46.7	42.7	39.4
PM2. 5	60 µg/m3	28.3	25.6	24.6	22.1	26.8	24.5	22.7	19.7
Sulphur Dioxide SO2	80(µg/m3	6.7	6.9	6.5	6.1	7	6.8	6.1	5.9
Nitrogen Dioxide NO2	80(µg/m3	12.3	11.6	11.4	11.2	12.8	12.2	11.5	10.8
Carbon Monoxide CO	4 mg/m3	0.22	0.2	0.17	0.19	0.19	0.17	0.18	0.16

**(ii) Vibration (PPV)** ND/sec- at the distance of 200 meter from blast site.

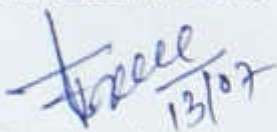
**(iii) Quality of Discharge Water:-** Zero Discharge Water From Mines

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 -		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)

  
13/07

(Tarun Kumar)  
sst. Vice President -ACP

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**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 June 2020**

**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/m <sup>3</sup>	49.2	52.7	50.1	47.9	48.9	46.1	47.7	45.7
PM2.5	60 µg/m <sup>3</sup>	28.4	29.7	26.1	25.4	24.6	22.9	22.7	20.4
Sulphur Dioxide SO <sub>2</sub>	80(µg/m <sup>3</sup>	6.4	7.2	7.5	6.9	7	6.4	6.8	6.6
Nitrogen Dioxide NO <sub>2</sub>	80(µg/m <sup>3</sup>	12.4	11.3	11.9	10.8	13.1	12.3	12.8	11.7
Carbon Monoxide CO	4 mg/m <sup>3</sup>	0.21	0.23	0.2	0.18	0.18	0.21	0.16	0.18

BDL - Below Detection Limit-

**(ii) Vibration (PPV)** ND/ 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)	<table border="1"> <tr> <td>2018</td> <td>2019</td> </tr> <tr> <td>7098 (Plant &amp; Mines)</td> <td>5000</td> </tr> </table>	2018	2019	7098 (Plant & Mines)	5000
2018	2019					
7098 (Plant & Mines)	5000					

**For Nuvoco Vistas Corp.Ltd**

(Arasmeta Cement Plant)

*Tarun Kumar*  
13/07

(Tarun Kumar)

Asst. Vice President -ACP

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**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 June`2020**

**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	NR
2	PC & RAW MILL -2	Bag Filter	NR
3	COOLER	ESP	NR
4	COAL MILL -1	Bag Filter	NR
5	COAL MILL -2	Bag Filter	NR
6	CEMENT MILL -1	Bag Filter -1	18.2
7	CEMENT MILL -1	Bag Filter -2	20.6
8	CEMENT MILL -2	ESP	21.9
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	42.8	45.2	46.7	40.9
PM2.5 (µg/m3)	60	19.4	21.6	22.3	18.2
Sulphur Dioxide SO2 (µg/m3)	80	7.9	7.2	8.1	6.7
Nitrogen Dioxide NO2 (µg/m3)	80	12.8	13.4	14.1	13.9
Carbon Monoxide CO (mg/m3)	4	0.22	0.2	0.22	0.2

**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	7.3	5.5 - 9.0
2	Suspended Solids	71	100 mg/Ltr.
3	Chemical Oxygen Demand (COD)	85	250 mg/Ltr
4	Biological Oxygen Demand (BOD)	25	30 mg/Ltr
5	Oil& Grease	<1	10 mg/Ltr

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